Refine Search

Search Results -

Terms	Documents
(((Test) ADJ (Script)) OR (testscript)) ADJ (generator OR generation)	6

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L8

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Friday, May 27, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=NO; OP=OR			
L8	(((Test) ADJ (Script)) OR (testscript)) ADJ (generator OR generation)	6	L8
L7	L5 AND (symbol) and (graph OR call)	37	L7
L6	L5 and 717/124-127.ccls.	25	L6
L5	L3 OR l1 OR l2	327	L5
L4	L3 AND l1 AND l2	0	L4
L3	test ADJ script	253	L3
L2	debugger ADJ script	4	L2
L1	((Debug ADJ script) OR (path ADJ tester))	70	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L5 and (717/124 \|717/125 \|717/126 \|717/127).ccls.	25

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L6

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Friday, May 27, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=NO; OP=OR			
L6	L5 and 717/124-127.ccls.	25	L6
L5	L3 OR l1 OR l2	327	L5
L4	L3 AND l1 AND l2	0	L4
L3	test ADJ script	253	L3
L2	debugger ADJ script	4	L2
L1	((Debug ADJ script) OR (path ADJ tester))	70	L1

END OF SEARCH HISTORY

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 25 of 25 returned.

☐ 1. Document ID: US 6898704 B2

L6: Entry 1 of 25 File: USPT May 24, 2005

US-PAT-NO: 6898704
DOCUMENT-IDENTIFIER: US 6898704 B2

TITLE: Method and apparatus for making and using test verbs

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Louden; Michael	Mound	MN		
Charette; Fran.cedilla.ois	Minneapolis	MN		
Boen; Ryon	Chanhassen	MN		

US-CL-CURRENT: 713/2; 709/205, 714/33, 714/38, 714/738, 714/742, 717/124

ABSTRACT:

A computerized method and system for testing a function of an information-processing system. This includes providing an architecture having a set of test commands, the test commands including a set of one or more stimulation commands and a set of one or more result-testing commands, and defining a set of test verbs out of combinations of the test commands. This allows the test programmer to define an overall test program that uses the test verbs in writing a test program that specifies an overall function that will extensively test a system-under-test. The methods further includes executing a program that includes a plurality of test verb instructions and outputting a result of the program. In some embodiments, the present invention provides a computer-readable media that includes instructions coded thereon that when executed on a suitably programmed computer executes one or more of the above methods.

21 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWMC | Draw D

☐ 2. Document ID: US 6865731 B2

L6: Entry 2 of 25 File: USPT Mar 8, 2005

US-PAT-NO: 6865731
DOCUMENT-IDENTIFIER: US 6865731 B2

TITLE: Method and computer program product for testing application program software

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davia; Christopher Jay	Mableton	GA		
Wells; Bradley Kenneth	Kennesaw	GA		

US-CL-CURRENT: 717/127; 717/125, 717/126, 717/131

ABSTRACT:

A test bed includes a primary test computer and a number of secondary test computers. The primary test computer includes a primary test program, and the secondary test computers each include secondary test programs. As a technician tests the application program, the primary test program captures and logs input data, and sends the input data to a secondary test computer. The secondary test computer maps the input data according to the format required by its associated secondary test computer. The secondary test computer executes the application program according to the mapped input data. When the secondary test computer detects an exception condition arising from a bug or other unusual behavior of the application program, the secondary test computer notifies the primary test computer. The primary test computer displays and logs the exception condition.

16 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 3. Document ID: US 6862682 B2

L6: Entry 3 of 25 File: USPT Mar 1, 2005

US-PAT-NO: 6862682
DOCUMENT-IDENTIFIER: US 6862682 B2

TITLE: Method and apparatus for making and using wireless test verbs

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Louden; Michael	Mound	MN		
Charette; Francois	Minneapolis	MN		
Boen; Ryon	Chanhassen	MN		
Krause; Mitch	Chanhassen	MN		

US-CL-CURRENT: 713/2; 709/205, 714/33, 714/38, 714/738, 714/742, 717/124

ABSTRACT:

A computerized method and system for testing a function of an information-processing system. This includes providing an architecture having a set of test commands, the test commands including a set of one or more stimulation commands and a set of one or more result-testing commands, and defining a set of test verbs out of combinations of the test commands. This allows the test programmer to define an overall test program that uses the test verbs in writing a test program that specifies an overall function that will extensively test a system-under-test. The methods further includes executing a program that includes a plurality of test verb instructions and outputting a result of the program. In some embodiments, the present invention provides a computer-readable media that includes instructions coded thereon that when executed on a suitably programmed computer executes one or more of the above methods.

33 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 4. Document ID: US 6775824 B1

L6: Entry 4 of 25 File: USPT Aug 10, 2004

US-PAT-NO: 6775824
DOCUMENT-IDENTIFIER: US 6775824 B1

TITLE: Method and system for software object testing

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Osborne, II; Theodore M.	Burlington	MA		
Glik; Michael V.	Newton	MA		
Vahey; Walter G.	Winchester	MA		
Baker; Caren H.	Waltham	MA		
Friedman; George	Framingham	MA		

US-CL-CURRENT: 717/125; 714/46, 714/703, 714/738

ABSTRACT:

A system for testing middleware of applications in the N-tiered model. The test system contains test code generators, test engines to execute multiple copies of the test code and a data analyzer to analyze and present the results to a human user. The system is able to automatically generate test code to exercise components of the middleware using information about these components that would otherwise be available to the application under test. Multiple copies of the test code are executed in a synchronized fashion. Execution times of multiple events are recorded

and then presented in one of several formats. With the system, an application developer can identify components that represent performance bottlenecks or can gather information on deployment properties of individual components that can be used to enhance the performance of the application under test.

9 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 5. Document ID: US 6725399 B1

L6: Entry 5 of 25 File: USPT Apr 20, 2004

US-PAT-NO: 6725399
DOCUMENT-IDENTIFIER: US 6725399 B1

TITLE: Requirements based software testing method

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman; John	Dallas	TX		

US-CL-CURRENT: 714/38; 717/124

ABSTRACT:

A method for testing computer software is described. The method is intended for operation on software which may or may not have been previously subjected to unit and integration tests, to determine if it will meet the specific requirements of an end user. The method is applicable to internally developed, contractor developed, or vendor supplied software. The method includes application in six key process areas. The six key process areas are development of a test plan, development of test cases to support the plan, development of an environment to simulate the technical environment in which the program will operate, test execution in which the tests are executed in a technical environment, compiling and analyzing the results and finally reporting the results in a form whereby the end user can determine both the feasibility of the software system for the specific requirements and any areas where additional testing or modifications are necessary.

9 Claims, 20 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 6. Document ID: US 6708324 B1

L6: Entry 6 of 25 File: USPT Mar 16, 2004

US-PAT-NO: 6708324
DOCUMENT-IDENTIFIER: US 6708324 B1
** See image for Certificate of Correction **

TITLE: Extensible automated testing software

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Solloway; Jeffrey P.	Raleigh	NC		
Yang; Jay W.	Orinda	CA		
He; Ying	Mountain View	CA		

US-CL-CURRENT: 717/124

ABSTRACT:

Extensible automated testing software provides reliability, user extendibility, scalability, and multiple simultaneous testing support through the use:of modules which the user may employ to set up and run test scripts. One or more job files are passed to an execution harness, which then starts a System Runner Process on a host specified in the one or more job files if one has not already been started. A connection is then made between the execution harness and the system runner process and one or more Test Runner Processes are spawned. These Test Runner Processes may be spread out over various hosts. Each of these Test Runner processes calls procedures to execute one test script at a time. Since multiple instances of the software may be run simultaneously, this allows the software to properly manage multiple tests running on multiple hosts being executed by multiple users.

97 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 7. Document ID: US 6708224 B1

L6: Entry 7 of 25 File: USPT Mar 16, 2004

US-PAT-NO: 6708224
DOCUMENT-IDENTIFIER: US 6708224 B1

TITLE: Methods, systems and computer program products for coordination of operations for interrelated tasks

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Tsun; William	Cary	NC
Chandra; Vikas	Cary	NC
Wood; John Lee	Raleigh	NC
Schwaller; Peter James	Raleigh	NC

US-CL-CURRENT: 719/316; 717/127

ABSTRACT:

Methods, systems and computer program products are provided which coordinate operations for a plurality of interrelated tasks executing on a computer using actual state objects and desired state objects. For each event including coordination between two of the plurality of interrelated tasks, a first (or initiator) task initiates operations by a second (or executor) task to carry out a desired sequence of operations. The initiator task sets a desired state object to the desired state and submits a request to the executor task. The executor task, in turn, operates on the request in order to update an actual state object to the desired state stored in the desired state object by the initiator task. Write control over the desired state object is therefore granted to the initiator task while write control over the actual state object is granted to the executor task. A transitional state may be provided for the actual state object during the time period while the executor task is carrying out the operations necessary to change from the actual state to the desired state. Different restrictions on operations related to the associated object may be provided while the actual state object is in the transitional state. Also provided are systems, methods and computer program products for monitoring a task executing on a computer which utilizes a work in process queue and a work pending queue and restarting the task if it is not executing properly.

17 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☐ 8. Document ID: US 6701514 B1

L6: Entry 8 of 25 File: USPT Mar 2, 2004

US-PAT-NO: 6701514
DOCUMENT-IDENTIFIER: US 6701514 B1

TITLE: System, method, and article of manufacture for test maintenance in an automated scripting framework

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		
Schramm; Kevin	Rose Valley	PA		

US-CL-CURRENT: 717/115; 707/102, 717/124

ABSTRACT:

A system, method and article of manufacture are provided for affording test maintenance in an automated scripting framework. First, a plurality of test scripts are developed. Then, the plurality of test scripts are stored in a centrally located database. A user is then allowed to edit a specific test script located on the centrally located database. Finally, the user edits to the specific test script are propagated to each of the plurality of test scripts.

18 Claims, 82 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 9. Document ID: US 6698012 B1

L6: Entry 9 of 25 File: USPT Feb 24, 2004

US-PAT-NO: 6698012
DOCUMENT-IDENTIFIER: US 6698012 B1

TITLE: Method and system for testing behavior of procedures

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kossatchev; Alexander S.	Moscow			RU
Barancev; Alexei V.	Moscow			RU
Burdonov; Igor B.	Moscow			RU
Petrenko; Alexander K.	Moscow			RU
Galter; Dmitri	Nashua	NH		

US-CL-CURRENT: 717/126; 717/124

ABSTRACT:

A systematic testing method of procedures is disclosed. The testing is carried out for parallel procedures separately from consecutive procedures which have no parallelism. Behavior of a group of parallel procedures to be tested in a parallel mode is specified. Based on the behavior, the group of procedures is tested using models of correct parallel behavior.

53 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 10. Document ID: US 6694509 B1

L6: Entry 10 of 25 File: USPT Feb 17, 2004

US-PAT-NO: 6694509
DOCUMENT-IDENTIFIER: US 6694509 B1

TITLE: Automated regression testing of workstation software

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stoval; William M.	Mt. Prospect	IL		
Edwards; David P.	Highland	UT		

US-CL-CURRENT: 717/124; 707/205, 715/514, 717/110, 717/113, 717/126, 717/128

ABSTRACT:

A workstation includes a regression testing program which tests application programs developed on the workstation using stored test scripts. A test directory tree is maintained to mirror a source code directory tree, and the test directory tree is employed to select the test scripts to be used in testing any newly compiled application programs.

13 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. De

☐ 11. Document ID: US 6530039 B1

L6: Entry 11 of 25 File: USPT Mar 4, 2003

US-PAT-NO: 6530039
DOCUMENT-IDENTIFIER: US 6530039 B1

TITLE: Porting engine for testing of multi-lingual software

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yang; Feng	Bothell	WA		

US-CL-CURRENT: 714/38; 704/10, 704/8, 704/9, 717/126

ABSTRACT:

The present invention is a system and method for testing various language versions of an application program using a single test script. An internal dictionary and/or an external dictionary are used to provide translations of command strings from one language to the specific language of the application program. The test script may then be translated at run time using the dictionaries to allow the testing program to test the application program in accordance with the language of the application program. Fuzzy match logic may be used to provide appropriate language translation of the command string. The internal dictionary may be automatically updated at run time so that it may learn language translations of unknown command strings for future runs.

37 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

☐ 12. Document ID: US 6418543 B1

L6: Entry 12 of 25 File: USPT Jul 9, 2002

US-PAT-NO: 6418543
DOCUMENT-IDENTIFIER: US 6418543 B1

TITLE: Apparatus and method for debugging source code

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goli; Srinivas R.	San Jose	CA		
Sundararajan; Subramaniyan	Fremont	CA		
Tammana; Aruna	Santa Clara	CA		

US-CL-CURRENT: 714/38; 717/125

ABSTRACT:

A method and apparatus for debugging a set of source code is disclosed. A plurality of test commands for testing the source code are obtained. The plurality of test commands may be obtained from a test script or a log file. A set of debugging commands for executing a set of the plurality of test commands is provided. The source code is then tested using the set of debugging commands.

38 Claims, 20 Drawing figures
Exemplary Claim Number: 22
Number of Drawing Sheets: 14

☐ 13. Document ID: US 6405364 B1

L6: Entry 13 of 25 File: USPT Jun 11, 2002

US-PAT-NO: 6405364
DOCUMENT-IDENTIFIER: US 6405364 B1

TITLE: Building techniques in a development architecture framework

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/101; 717/102, 717/120, 717/124

ABSTRACT:

A system is provided for building systems in a development architecture framework. The present invention is directed to both a system to be built and an implementation strategy to fulfill system requirements. Software components of the system are encapsulated with wrappers. The wrappers are adapted to be changed upon other software components of the system being changed while the encapsulated software components of the system remain unchanged. In one embodiment of the present invention, specifying the requirements of the system to be built and the implementation strategy to fulfill the requirements may be carried out using tools such as data modeling tools, process modeling tools, event modeling tools, performance modeling tools, object modeling tools, component modeling tools, reuse support tools, prototyping tools, application logic design tools, database design tools, presentation design tools, communication design, and usability test tools. In another embodiment of the present invention, improving the performance and maintenance of the system may be carried out using tools such as interactive navigation tools, graphical representation tools, extraction tools, repository tools, restructuring tools, and data name rationalization tools.

12 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

☐ 14. Document ID: US 6253368 B1

L6: Entry 14 of 25 File: USPT Jun 26, 2001

US-PAT-NO: 6253368
DOCUMENT-IDENTIFIER: US 6253368 B1

TITLE: Dynamically debugging user-defined functions and stored procedures

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nelin; Constance J.	Monte Sereno	CA		
Roth; Gerald Herman	San Jose	CA		
Sharp; Frederick Thomas	Menlo Park	CA		
Yeh; Shu-Huar Joseph	San Jose	CA		

US-CL-CURRENT: 717/124

ABSTRACT:

A method, apparatus, and article of manufacture and memory for providing a programming development environment that supports the development of Internet and Intranet applications. More specially, the present invention discloses an efficient, versatile dynamic debugger that allows platform-independent debugging of applications written in a wide variety of languages.

33 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

☐ 15. Document ID: US 6202200 B1

L6: Entry 15 of 25 File: USPT Mar 13, 2001

US-PAT-NO: 6202200
DOCUMENT-IDENTIFIER: US 6202200 B1

TITLE: Multi-tier debugging

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
House; Daniel Edward	San Jose	CA		
Nelin; Constance Jane	Monte Sereno	CA		

US-CL-CURRENT: 717/100; 707/10, 707/104.1, 709/203, 709/217, 715/759, 715/804, 717/125, 717/129

ABSTRACT:

A method, apparatus, and article of manufacture for providing a programming development environment that supports the development of Internet and Intranet applications. More specially, the present invention discloses a multi-tier debugger that allows the debugging of applications executing on multiple tiers at the same time, when the tiers are on separate machines or when the tiers are on a single machine. The debugger is split into a window module and a runtime module.

39 Claims, 5 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 16. Document ID: US 6189116 B1

L6: Entry 16 of 25 File: USPT Feb 13, 2001

US-PAT-NO: 6189116
DOCUMENT-IDENTIFIER: US 6189116 B1
**** See image for Certificate of Correction ****

TITLE: Complete, randomly ordered traversal of cyclic directed graphs

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mongan; John Thomas	Sausalito	CA		
Cribbs; Dorothy Mack	Mill Valley	CA		

US-CL-CURRENT: 714/38; 703/22, 714/39, 717/124

ABSTRACT:

A test generator creates a cyclic directed graph representation of the interface of a program being tested and then generates tests from this representation. In generating the tests, the test generator iteratively selects traversal paths through the cyclic directed graph that result in traversal of every edge in the graph in a random order with a minimum number of iterations. The resulting tests contain randomly selected actions and randomly generated data, and thus when executed, these tests randomly manipulate the program being tested.

27 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 17. Document ID: US 6067639 A

L6: Entry 17 of 25 File: USPT May 23, 2000

US-PAT-NO: 6067639
DOCUMENT-IDENTIFIER: US 6067639 A

TITLE: Method for integrating automated software testing with software development

DATE-ISSUED: May 23, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rodrigues; James Perry	Kirkland	WA		
Potter, IV; Orville Jay	Redmond	WA		

US-CL-CURRENT: 714/38; 717/124

ABSTRACT:

A computer operable method for integrating and automating test procedures within a computer application program. Instantiated test operation objects of an object class defined by the present invention correspond to functions to be tested within the computer application program. The test operation objects are instantiated by calls to functions in a test operation runtime library (DLL). The test operation objects include interface method functions which execute the intended test operation and simulate any required data, file, or memory I/O. Other aspects of the methods of the present invention provide rules which permit decisions as to the applicability of each test operation given the state of the application program or the context of the test operation sequence. The various test operation objects are selected to perform a sequence of test steps. In one mode of operation, the methods of the present invention randomly select among all the instantiated test operation objects. In another mode of operation, the methods of the present invention "playback" a previously recorded sequence of test operation objects to permit reproduction of failures in previous test sequences. In a third mode of operation, the methods of the present invention permit a user to modify or create "playback" files to customize a test case for a particular focus.

29 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

☐ 18. Document ID: US 6061517 A

L6: Entry 18 of 25 File: USPT May 9, 2000

US-PAT-NO: 6061517
DOCUMENT-IDENTIFIER: US 6061517 A
**** See image for Certificate of Correction ****

TITLE: Multi-tier debugging

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
House; Daniel Edward	San Jose	CA		
Nelin; Constance Jane	Monte Sereno	CA		

US-CL-CURRENT: 717/115; 709/203, 715/704, 715/804, 717/125

ABSTRACT:

A method, apparatus, and article of manufacture for providing a programming development environment that supports the development of Internet and

Intranet applications. More specially, the present invention discloses a multi-tier debugger that allows the debugging of applications executing on multiple tiers at the same time, when the tiers are on separate machines or when the tiers are on a single machine. The debugger is split into a window module and a runtime module.

36 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 19. Document ID: US 5991537 A

L6: Entry 19 of 25 File: USPT Nov 23, 1999

US-PAT-NO: 5991537
DOCUMENT-IDENTIFIER: US 5991537 A

TITLE: VXI test executive

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKeon; Brian T.	Newport	RI		
Larson; Mark C.	Newport	RI		
Sherman; Douglas H.	Cranston	RI		

US-CL-CURRENT: 717/115; 717/124

ABSTRACT:

A system is provided for developing program test sets with test hardware conforming to well known test industry standards, such as VXI, VME and GPIB standards. The system has a computer with a display console. After initialization and password checks, the console displays a front panel from which a user chooses the instruments, switches, connections, inputs, outputs, etc. which make up the program test set. As each choice is made, the system generates test script corresponding to the choice. The system then uses the test script, or macro, to generate the graphical representation of the component and its connections on the display. The graphical displays are standardized for each functional component or operation of a program test set, as well as being standardized between program test sets. The macros further allow a program test set to be more efficiently developed by coding macros rather than by developing graphical displays. The combined macros for the entire test set provide written documentation for the program test set, allowing for easy configuration management of the program test set.

19 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

20. Document ID: US 5812436 A

L6: Entry 20 of 25 File: USPT Sep 22, 1998

US-PAT-NO: 5812436
DOCUMENT-IDENTIFIER: US 5812436 A

TITLE: Method and apparatus for testing and analyzing the conformance of a proposed set of requirements for a proposed network management application

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Desgrousilliers; Marc	Campbell	CA		
Henderson; Gregory H.	Los Gatos	CA		
Prugsanapan; Jane S.	San Jose	CA		

US-CL-CURRENT: 702/108; 717/126

ABSTRACT:

A method and system for preparing a suite of test scripts for testing a proposed network management application. The proposed network management application, termed a subsystem control facility (SCF), is first defined as a set of requirements with the aid of a developmental tool incorporating a subsystem knowledgebase and a test generation knowledgebase. The subsystem knowledgebase contains the rules governing the operation of a given network and a library of permitted commands, objects, attributes, modifiers and other data. The test generation knowledgebase includes information relating to those commands and object specific to the proposed subsystem control facility set of requirements. A user interface coupled to the knowledgebases permits the selection of types of tests and specific commands and objects to be tested. Once test selection has been specified, test scripts corresponding to the selected tests are generated from the first and second knowledgebases for use in testing the proposed set of requirements for the SCF prior to coding the SCF. The suite of test scripts can be used to test the proposed SCF set of requirements, detect nonconformance with the rules and permit modification of the proposed set of SCF requirements. If necessary, additional testing may be performed using the same test scripts or a subset thereof, until the test results indicate no errors and a minimum number of warnings. Thereafter, the SCF product module can be coded. Errors in the developmental stage can be thus corrected early in the developmental cycle.

25 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 21. Document ID: US 5745767 A

L6: Entry 21 of 25 File: USPT Apr 28, 1998

US-PAT-NO: 5745767
DOCUMENT-IDENTIFIER: US 5745767 A

TITLE: Method and system for testing the interoperability of application programs

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosen; Douglas Jay	Kirkland	WA		
Smith, Jr.; Ross Faulkner	Redmond	WA		

US-CL-CURRENT: 717/124; 717/122

ABSTRACT:

A method and system for testing the interoperability of application programs. The interoperability testing system uses an application-independent test script and application-specific command scripts to test the interoperability of application programs. An application-independent test script contains a series of high-level application-independent commands that are to be performed to test the application programs. Each application program to be tested has a corresponding application-specific command script. An application-specific command script contains an implementation of each high-level command for the corresponding application program. To test application programs, the interoperability testing system executes an application-independent test script by reading each high-level command from the test script, retrieving the implementation of that high-level command for the application program that is to perform that command, and executing that implementation.

42 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 22. Document ID: US 5701471 A

L6: Entry 22 of 25 File: USPT Dec 23, 1997

US-PAT-NO: 5701471
DOCUMENT-IDENTIFIER: US 5701471 A

TITLE: System and method for testing multiple database management systems

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Subramanyam; Shanti	Saratoga	CA		

US-CL-CURRENT: 707/200; 707/1, 717/100, 717/124

ABSTRACT:

A database management system (DBMS) benchmark testing system for testing performance of a plurality of DBMS's stores both DBMS independent and DBMS specific files in a computer memory. The DBMS specific files include performance statistics collection procedures for each said DBMS, procedures for performing various DBMS operations for each DBMS, and environmental parameter definition files for each DBMS for specifying DBMS environmental parameters that control the configuration and operation of each DBMS. DBMS independent test scripts specify operations to be performed by specified ones of the DBMS's so as to test performance of the DBMS's, and specify performance statistics to be collected by the performance statistics collection procedures while the DBMS performs the specified operations. Test result files store benchmark test results, which include performance statistics for each benchmark test executed by the system under the control of one of the test scripts, as well as information denoting the DBMS tested, the test script used to perform the benchmark test, the operations performed by the DBMS tested, the DBMS environmental parameters for the DBMS tested. DBMS independent post test analysis procedures are used to analyze the information stored in the test result files. The system is modular and extendable, allowing the addition of new benchmark tests and/or the addition of DBMS's that utilize the DBMS independent facilities of the system.

7 Claims, 2 Drawing figures
Exemplary Claim Number: 4
Number of Drawing Sheets: 2

☐ 23. Document ID: US 5669000 A

L6: Entry 23 of 25 File: USPT Sep 16, 1997

US-PAT-NO: 5669000
DOCUMENT-IDENTIFIER: US 5669000 A
**** See image for Certificate of Correction ****

TITLE: Interpreter for performing remote testing of computer systems

DATE-ISSUED: September 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay Alan	Santa Clara	CA		
Nagarajan; Palanivelu	Campbell	CA		
Flynn; Sean Ludlow	Cupertino	CA		
Schneider; James Alan	San Jose	CA		

US-CL-CURRENT: 717/127; 717/134

ABSTRACT:

An interpretive language comprises instructions making up part of the first sequence of instructions (a test "script"). The first language comprises a first set of instructions, the first set of instructions causes a first computer system (a "host" in a preferred embodiment) to issue a series of commands to a second computer system (a "target") in order to cause the second computer system to emulate user activity on the second computer system. User activity includes emulating typing text and/or moving a mouse cursor position. The language further comprises a second set of instructions which cause the first computer system to issue a series of commands to the second computer system in order to cause the second computer system to respond to the first computer system with its state. This state includes user interface objects, and applications running in the target, etc. The language further comprises a third set of instructions, the third set of instructions causing the first computer system to issue a sequence of commands to the second computer system to respond in a predefined manner. These instructions indicate that the target computer system is to respond in within a given period of time, listen for further commands, etc. This is useful for repeatable and systematic testing of computer systems having a variety of hardware and software combinations for compatibility testing. Multitasking using "threads" for control of different targets using different test routines is also provided.

7 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☐ 24. Document ID: US 5657438 A

L6: Entry 24 of 25 File: USPT Aug 12, 1997

US-PAT-NO: 5657438
DOCUMENT-IDENTIFIER: US 5657438 A

TITLE: Interactive system for developing tests of system under test allowing independent positioning of execution start and stop markers to execute subportion of test script

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wygodny; Shlomo	Ramat Hasharon			IL
Zohar; Shahar	Rfar Saba			IL
Azulay; Alex	Herzlia			IL
Slonim; Yochanan	Herzlia			IL
Weinbaum; David	Tel Aviv			IL

US-CL-CURRENT: 714/1; 714/38, 714/45, 717/100, 717/124

ABSTRACT:

A system for developing tests of a System Under Test (SUT) which includes a Central Processing Unit (CPU), a screen and input apparatus. The system for developing tests includes a manipulation apparatus enabling an operator to manipulate, within a test workspace, a sequence of test script statements into a desired script, wherein the test script statements describe operator commands to the SUT and screen capture and verify operations and b) interactive execution apparatus for executing at least a portion of the desired script by providing the at least a portion of the desired script to the SUT thereby to operate the SUT as desired.

19 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

25. Document ID: US 5475843 A

L6: Entry 25 of 25 File: USPT Dec 12, 1995

US-PAT-NO: 5475843
DOCUMENT-IDENTIFIER: US 5475843 A

TITLE: System and methods for improved program testing

DATE-ISSUED: December 12, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halviatti; Ramin L.	Santa Cruz	CA		
Potts; Richard J.	Palo Alto	CA		

US-CL-CURRENT: 717/124; 717/108, 717/125, 717/127, 719/329

ABSTRACT:

The present invention includes a Computer-based Training system (CBT) having one or more Application Translation Units (ATUs), a Message Engine, and a Script Engine. For one or more target applications of interest, an ATU is provided for processing events specific to that application, thereby trapping events and translating them into abstract messages or "meta-messages" for conveying information about a particular event to the system. A computer-aided software testing embodiment of the present invention is also described. The system provides prefabricated building blocks for constructing a high-level model of an application's User Interface (UI). This high-level model serves as a middle ground between test scripts and the application being tested. The knowledge of how a given UI element is controlled or how it can be observed is retained in the model rather than in a test script. Consequently, the test script consists of easy-to-maintain, high-level testing commands only.

35 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 23

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

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☐ 1. Document ID: US 6810494 B2

L7: Entry 1 of 37 File: USPT Oct 26, 2004

US-PAT-NO: 6810494
DOCUMENT-IDENTIFIER: US 6810494 B2

TITLE: Software system and methods for testing transactional servers

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Tsoran			IL
Leshem; Eran	Gan Shomron			IL
Kholmyansky; Maxim	Tel-Aviv			IL
Garri; Amos	Modiin			IL
Tapiro; Nisim	Rishon-Letsion			IL
Hillel; Meni	San Jose	CA		

US-CL-CURRENT: 714/46; 714/32

ABSTRACT:

A testing tool records a user session with a transactional server and generates a test for subsequently testing the server. Through a user interface of the testing tool, the user can define verification steps to automatically test for expected server responses during test execution. The test is displayed to the user as a tree having nodes which represent steps of the test. Via the user interface, the user can modify node properties and perform other types of tree edit operations to edit the test, without the need to know a scripting or other programming language. When a user selects a node that corresponds to a particular field or other object of the server screen, the testing tool automatically displays the screen with the object highlighted. The testing tool also allows the test author to use a spreadsheet to conveniently specify data sets for running multiple iterations of a test.

37 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. De

☐ 2. Document ID: US 6775824 B1

L7: Entry 2 of 37 File: USPT Aug 10, 2004

US-PAT-NO: 6775824
DOCUMENT-IDENTIFIER: US 6775824 B1

TITLE: Method and system for software object testing

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Osborne, II; Theodore M.	Burlington	MA		
Glik; Michael V.	Newton	MA		
Vahey; Walter G.	Winchester	MA		
Baker; Caren H.	Waltham	MA		
Friedman; George	Framingham	MA		

US-CL-CURRENT: 717/125; 714/46, 714/703, 714/738

ABSTRACT:

A system for testing middleware of applications in the N-tiered model. The test system contains test code generators, test engines to execute multiple copies of the test code and a data analyzer to analyze and present the results to a human user. The system is able to automatically generate test code to exercise components of the middleware using information about these components that would otherwise be available to the application under test. Multiple copies of the test code are executed in a synchronized fashion. Execution times of multiple events are recorded and then presented in one of several formats. With the system, an application developer can identify components that represent performance bottlenecks or can gather information on deployment properties of individual components that can be used to enhance the performance of the application under test.

9 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Ds

☐ 3. Document ID: US 6741967 B1

L7: Entry 3 of 37 File: USPT May 25, 2004

US-PAT-NO: 6741967
DOCUMENT-IDENTIFIER: US 6741967 B1

TITLE: Full service research bureau and test center method and apparatus

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Arthur F.	San Francisco	CA		
Ketchpel; Steven P.	Menlo Park	CA		

US-CL-CURRENT: 705/10; 705/1, 705/11, 705/500, 705/7

ABSTRACT:

A centralized full-service research bureau and test center method and apparatus is provided, which assists a customer, typically a Web product manager, in designing a usability test for typical tasks faced by a visitor to the customer's site. The centralized full-service research bureau and test center method and apparatus provides proprietary software to administer the usability test to a pre-qualified pool of testers meeting desired demographic constraints. The usability test measures not only the visitor's success in achieving objectives, but also prompts a tester for context-specific feedback ranging from aesthetics to behavior. Statistics are aggregated across the testing population and presented not just as data, but with recommended actions backed up by analysis.

53 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12



4. Document ID: US 6738933 B2

L7: Entry 4 of 37 File: USPT May 18, 2004

US-PAT-NO: 6738933
DOCUMENT-IDENTIFIER: US 6738933 B2

TITLE: Root cause analysis of server system performance degradations

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraenkel; Noam A.	Jerusalem			IL
Goldstein; Guy	Ramat-Hasharon			IL
Sarig; Ido	Palo Alto	CA		
Haddad; Refael	Modi'in			IL

US-CL-CURRENT: 714/47; 702/186, 714/25, 714/26

ABSTRACT:

A system for monitoring and analyzing the post-deployment performance of a web-based or other transactional server is disclosed. The monitoring system includes agent components that monitor and report various performance parameters associated with the transactional server, such as response times seen by end users, server and

network times, and various server resource utilization parameters. A web-based reports server displays the data collected by the agents through a series of charts and graphs that indicate whether correlations exist between the response times and lower level parameters. A root cause analysis system applies statistical algorithms to the collected data to detect performance degradations in specific parameters, and uses predefined parameter dependency rules to correlate high level performance problems to likely sources or causes of such problems.

24 Claims, 45 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 45

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 5. Document ID: US 6718535 B1

L7: Entry 5 of 37 File: USPT Apr 6, 2004

US-PAT-NO: 6718535
DOCUMENT-IDENTIFIER: US 6718535 B1
**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for an activity framework design in an e-commerce based environment

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/101; 717/120

ABSTRACT:

A system and method are provided for providing an activity framework. First, a plurality of sub-activities are created which each include sub-activity logic adapted to generate an output based on an input received from a user upon execution. Second, a plurality of activities are defined which each execute the sub-activities in a unique manner upon being selected for accomplishing a goal associated with the activity. Selection of one of the activities is allowed by receiving user indicia. An interface is depicted for allowing receipt of the input and display of the output during execution of the sub-activities associated with the selected activity.

24 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 6. Document ID: US 6704873 B1

L7: Entry 6 of 37 File: USPT Mar 9, 2004

US-PAT-NO: 6704873
DOCUMENT-IDENTIFIER: US 6704873 B1

TITLE: Secure gateway interconnection in an e-commerce based environment

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 713/201; 709/223, 709/249

ABSTRACT:

A system and method of providing a global internetworking gateway architecture in an e-commerce environment are provided. A plurality of gateways each situated in a distinct geographic location are coupled to an internet. A wide area network, separate from the internet, is coupled to each of the gateways for providing communication between the wide area network and the internet. Coupled to the wide area network is a central database for providing a central storage for data used in e-commerce carried out over the internet. In one embodiment, at least one of the gateways includes at least one screening router coupled to the internet service provider, at least one firewall connected to the screening router, and a choker router coupled between the wide area network and the firewall.

16 Claims, 179 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 7. Document ID: US 6701514 B1

L7: Entry 7 of 37 File: USPT Mar 2, 2004

US-PAT-NO: 6701514
DOCUMENT-IDENTIFIER: US 6701514 B1

TITLE: System, method, and article of manufacture for test maintenance in an automated scripting framework

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		

Schramm; Kevin Rose Valley PA

US-CL-CURRENT: 717/115; 707/102, 717/124

ABSTRACT:

A system, method and article of manufacture are provided for affording test maintenance in an automated scripting framework. First, a plurality of test scripts are developed. Then, the plurality of test scripts are stored in a centrally located database. A user is then allowed to edit a specific test script located on the centrally located database. Finally, the user edits to the specific test script are propagated to each of the plurality of test scripts.

18 Claims, 82 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

8. Document ID: US 6658646 B1

L7: Entry 8 of 37 File: USPT Dec 2, 2003

US-PAT-NO: 6658646
DOCUMENT-IDENTIFIER: US 6658646 B1

TITLE: Multiple interface scripting language

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hernandez, III; Gaspar	Andover	NJ		

US-CL-CURRENT: 717/115; 717/114, 717/116, 717/117, 717/141, 717/142, 717/143

ABSTRACT:

For a large system having an associated monitoring system with one or more user interfaces that each requires a large amount of direct user interaction, a scripting language especially well suited to write a script (that generates liaison interface between the user and the existing user interfaces) is provided. The liaison interface requires much less direct user interaction by taking the place of the user in the extensive direct interaction required by the existing user interfaces. Such a scripting language that includes an integration construct data structure that permits commands of discrete interfaces to be integrated in a single script that is to be executed by a machine. Also provided are scripts according to the scripting language, that include at least two of the integration construct data structures.

26 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

9. Document ID: US 6633878 B1

L7: Entry 9 of 37 File: USPT Oct 14, 2003

US-PAT-NO: 6633878
DOCUMENT-IDENTIFIER: US 6633878 B1

TITLE: Initializing an ecommerce database framework

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/100; 707/1, 707/102, 707/205

ABSTRACT:

A system, method and article of manufacture are provided for initializing a database used with an issue tracker. The issue tracker receives information relating to a plurality of issues from a plurality of users, displays the information relating to the issues, and allows the browsing of the information relating to each of the issues. To initialize the database, the information relating to the issues is stored in a first database. A second database is also provided that stores tables including: a plurality of user interfaces; and/or application logic for accessing the information in the first database. The tables of the second database are reconfigured upon migrating the first database from a first folder to a second folder.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

10. Document ID: US 6609128 B1

L7: Entry 10 of 37 File: USPT Aug 19, 2003

US-PAT-NO: 6609128
DOCUMENT-IDENTIFIER: US 6609128 B1

TITLE: Codes table framework design in an E-commerce architecture

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/10; 707/200

ABSTRACT:

A system, method and article of manufacture are provided for maintaining application consistency. First, a table of codes and associated text phrases are provided. Such table of codes is stored on a local storage medium within an e-commerce computer architecture. Next, the table of codes is accessed on the local storage medium within the e-commerce computer architecture. One of the text phrases is subsequently retrieved by selecting a corresponding one of the codes of the table. During operation, modification of the text phrases associated with each of the codes of the table is permitted. A plurality of services are executed, including retrieving a single one of the text phrases, retrieving all of the text phrases in response to a single command, updating a single code and text phrase combination, updating all of the code and text phrase combinations, naming the table, adding a new code and text phrase combination, removing one of the code and text phrase combination, and adding another table.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

11. Document ID: US 6601233 B1

L7: Entry 11 of 37 File: USPT Jul 29, 2003

US-PAT-NO: 6601233
DOCUMENT-IDENTIFIER: US 6601233 B1
**** See image for Certificate of Correction ****

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of logical business components in a business are first defined with each business component having a plurality of capabilities. Next, functional interrelationships are identified between the logical business components. Code modules are then generated to carry out the capabilities of the logical business components and the

functional interrelationships between the logical business components, wherein the code modules represent a transformation of the logical business components to their physical implementation, while ensuring the capabilities that are carried out by each code module are essentially unique to the logical business component associated with the code module. Next, the functional aspects of the code modules and the functional relationships of the code modules are tested. The code modules are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 12. Document ID: US 6587969 B1

L7: Entry 12 of 37 File: USPT Jul 1, 2003

US-PAT-NO: 6587969
DOCUMENT-IDENTIFIER: US 6587969 B1

TITLE: Software system and methods for testing the functionality of a transactional server

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Tsoran			IL
Leshem; Eran	Gan Shomron			IL
Kholmyansky; Maxim	Tel-Aviv			IL
Garri; Amos	Modiin			IL
Tapiro; Nisim	Letsion			IL
Hillel; Meni	San Jose	CA		

US-CL-CURRENT: 714/46; 714/38

ABSTRACT:

A testing tool automatically records a series of user steps taken during a user session with a transactional server and generates a test for testing the functionality of server. Through a user interface of the testing tool, the user can define verification steps to automatically test for expected server responses during test execution. The testing tool displays the test to the user as a tree having nodes (displayed as icons) which represent steps of the test. Via the user interface, the user can modify node properties and perform other types of tree edit operations to edit the test, without the need to know a scripting or other programming language. When the user selects a node that corresponds to a particular field or other object of the server screen, the testing tool automatically displays the screen with the object highlighted. The testing tool also allows the test author to use a spreadsheet to conveniently specify data sets for running multiple iterations of a test; thus, the user can record a single transaction and then automatically test the transaction with other data sets.

55 Claims, 23 Drawing figures
Exemplary Claim Number: 40
Number of Drawing Sheets: 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 13. Document ID: US 6571285 B1

L7: Entry 13 of 37 File: USPT May 27, 2003

US-PAT-NO: 6571285
DOCUMENT-IDENTIFIER: US 6571285 B1

TITLE: Providing an integrated service assurance environment for a network

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Groath; Steve G.	Burnsville	MN		
Miller; Myke L.	Excelsior	MN		
Sachse; Christopher	Maplewood	MN		
Bloom; Jeremy D.	San Francisco	CA		
Turkson; Leslie T.	Eagan	MN		
Lund; Timothy	Lakeville	MN		
Beskar; Patrick J.	Mahotmedi	MN		

US-CL-CURRENT: 709/223; 370/352, 370/389, 709/224

ABSTRACT:

A method providing service assurance for a network to maintain an agreed upon Quality of Service. First, an alarm is generated to indicate a status of a network. The generation of the alarm comprises selecting a parameter of network to be monitored; determining a triggering level of the parameter; monitoring the parameter of an occurrence of the triggering level; and initiating alarm notification upon the monitored occurrence of the triggering level. Network event information is then dispatched upon generation of the alarm and is subsequently mapped. The data collected on the status of the network is then manipulated by concatenating the data collected on a network into a master file; reformatting the data into a standarized format; translating the data to key codes; sorting the data according to predetermined criteria; and concatenating the sorted data together. The data is then sorted in a database. Thereafter, network availability is conveyed graphically.

12 Claims, 39 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 37

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 14. Document ID: US 6539538 B1

L7: Entry 14 of 37 File: USPT Mar 25, 2003

US-PAT-NO: 6539538
DOCUMENT-IDENTIFIER: US 6539538 B1

TITLE: Intelligent information routing system and method

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brewster; James A.	Plano	TX		
Subramanian; Srikanth	Plano	TX		
Hite; Thomas D.	Allen	TX		
Lee; Gene W.	Plano	TX		
Brannick; Gary L.	Plano	TX		

US-CL-CURRENT: 717/115; 379/10.03, 717/100, 717/101

ABSTRACT:

An intelligent information router system comprising a telephony controller coupled to a private branch exchange through a link interface. The telephony controller may communicate with a handle manager and a script interpreter engine. The telephony controller may receive information from the link interface regarding telephone calls being placed to the private branch exchange. The telephony controller may initiate actions with the script interpreter engine that access information stored in a database through a database controller. In response to action of the script interpreter engine, the telephony controller may instruct the private branch exchange to route the call to an appropriate location within a company depending on the information received by the private branch exchange through automatic transmission of data or interaction with the calling party.

5 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 15. Document ID: US 6523027 B1

L7: Entry 15 of 37 File: USPT Feb 18, 2003

US-PAT-NO: 6523027
DOCUMENT-IDENTIFIER: US 6523027 B1
**** See image for Certificate of Correction ****

TITLE: Interfacing servers in a Java based e-commerce architecture

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/4; 707/10, 707/100

ABSTRACT:

A system, method and article of manufacture are provided for providing an interface between a first server and a second server with a proxy component situated therebetween. Initially, a request for a business object is identified by an application on the first server. The first server is then connected to the second server. Next, selection criteria from the first server is transmitted to the second server. In response to the selection criteria, the first server receives a first recordset and a second recordset from the second server. Business data is included in the first recordset and result codes are included in the second recordset. The first and second recordsets are mapped to the business object and the business object is sent to the application on the first server.

18 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 16. Document ID: US 6502102 B1

L7: Entry 16 of 37 File: USPT Dec 31, 2002

US-PAT-NO: 6502102
DOCUMENT-IDENTIFIER: US 6502102 B1
**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for a table-driven automated scripting architecture

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		
Schramm; Kevin	Rose Valley	PA		

US-CL-CURRENT: 707/102

ABSTRACT:

A system, method and article of manufacture are provided for affording a table-driven automated scripting architecture. First, test script information is divided

into a plurality of components of one or more words having a commonly understood meaning. Then the components are stored into a database. Later, the components are parsed into one or more words (each having a commonly understood meaning). The database is queried for the words to retrieve a set of computer instructions that cause a computer to perform functions related to the commonly understood meaning of the words and then to perform those functions.

20 Claims, 82 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 51

☐ 17. Document ID: US 6360332 B1

L7: Entry 17 of 37 File: USPT Mar 19, 2002

US-PAT-NO: 6360332
DOCUMENT-IDENTIFIER: US 6360332 B1

TITLE: Software system and methods for testing the functionality of a transactional server

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Tsoran			IL
Leshem; Eran	Gan Shomron			IL
Kholmyansky; Maxim	Tel-Aviv			IL
Garri; Amos	Modiin			IL
Tapiro; Nisim	Letsion			IL
Hillel; Meni	San Jose	CA		

US-CL-CURRENT: 714/4; 714/38

ABSTRACT:

A testing tool automatically records a series of user steps taken during a user session with a transactional server and generates a test for testing the functionality of server. Through a user interface of the testing tool, the user can define verification steps to automatically test for expected server responses during test execution. The testing tool displays the test to the user as a tree having nodes (displayed as icons) which represent steps of the test. Via the user interface, the user can modify node properties and perform other types of tree edit operations to edit the test, without the need to know a scripting or other programming language. When the user selects a node that corresponds to a particular field or other object of the server screen, the testing tool automatically displays the screen with the object highlighted. The testing tool also allows the test author to use a spreadsheet to conveniently specify data sets for running multiple iterations of a test; thus, the user can record a single transaction and then automatically test the transaction with other data sets.

23 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 18. Document ID: US 6243862 B1

L7: Entry 18 of 37 File: USPT Jun 5, 2001

US-PAT-NO: 6243862
DOCUMENT-IDENTIFIER: US 6243862 B1

TITLE: Methods and apparatus for testing components of a distributed transaction processing system

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lebow; Max A.	Philadelphia	PA		

US-CL-CURRENT: 717/131; 702/119, 717/115, 717/143

ABSTRACT:

A computer executable test language is provided for testing a component of a distributed transaction processing system implemented in accordance with the X/Open Distributed Transaction Processing model and supporting the XATMI application programming interface of said model (XATMI API). The test language comprises a plurality of commands, each command corresponding to a respective one of the function calls of the XATMI API. At least some of the commands of the test language have a syntax and semantics that requires a lesser number of parameters to be supplied with the command than the formal syntax of the corresponding function call of the XATMI API, thus hiding the complexities of the XATMI API from the test operator. A client program of the test environment comprises an interpreter of the test language that determines from a parsed test command whether any parameters required by the formal syntax of the XATMI API have not been supplied, generates default values for any unsupplied parameters, constructs the corresponding function call of the XATMI API in accordance with its formal syntax using the generated defaults, and issues the constructed function call to the component under test. A server program of the test environment comprises at least one service that provides an expected response to a function call issued by the client program.

32 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 19. Document ID: US 6073160 A

L7: Entry 19 of 37 File: USPT Jun 6, 2000

US-PAT-NO: 6073160
DOCUMENT-IDENTIFIER: US 6073160 A

TITLE: Document communications controller

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grantham; Paul V.	Burlingame	CA		
Lyles; Joseph B.	Mountain View	CA		
Smith; William T.	Belmont	CA		

US-CL-CURRENT: 709/200; 705/40, 709/202, 709/218, 709/219

ABSTRACT:

The present invention is a method and apparatus for providing a general-purpose, multifunction, individually addressable, full-bandwidth bi-directional communication device with built-in Authentication, Authorization, and Accounting (AAA) capabilities that connects a home or business user with ATM and other switched broadband digital networks in a convenient, adaptable, extensible manner at reasonable cost. The device supports a Document Services Architecture (DSA) and, in particular, supports agent-based communications (including interaction with an Agent Instance Service) to ensure well-behaved communications and fair allocation of network resources among users. The device can be used in a heterogeneous environment and with different types of networks and protocols. The full-bandwidth bi-directional communication and built-in AAA capabilities of the device distinguish it from other "set-top boxes."

7 Claims, 21 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 21



☐ 20. Document ID: US 6006242 A

L7: Entry 20 of 37 File: USPT Dec 21, 1999

US-PAT-NO: 6006242
DOCUMENT-IDENTIFIER: US 6006242 A

TITLE: Apparatus and method for dynamically creating a document

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poole; Donald L.	St. Cloud	MN		

Wyman; Richard K. St. Cloud MN

US-CL-CURRENT: 715/531

ABSTRACT:

An apparatus and method for dynamically constructing electronic and printable documents and forms. An entity reference is read from a document instance and compared to entity identifiers provided in a catalog containing a plurality of entity identifiers. Each of the entity identifiers in the catalog is associated with an entity resolution process. An inference engine or other entity resolving processor is invoked to effectuate the resolution process associated with a matching entity identifier. The inference engine or entity resolving processor resolves the entity reference to a resolved entity, such as a component of text or graphics to be included in a document. Linking between the document, entity reference, and resolved entity provides for detailed auditing of the entity resolution process. A resolved entity may contain one or more embedded entity references which are similarly resolved. The dynamic document construction methodology may be implemented using a distributed networking approach, or on a stand-alone computer system. A significant advantage of the present invention concerns the re-usability of textual, graphical, and other components, thereby providing for the construction of any arbitrary document type having any arbitrary number of presentation formats. In one embodiment, the inference engine used to resolve entity references is converted to an executable form to enhance portability. A document or form constructed in accordance with the present invention may be published in printed or electronic form, such as in the form of a World Wide Web (Web) page.

26 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 29

21. Document ID: US 5987633 A

L7: Entry 21 of 37 File: USPT Nov 16, 1999

US-PAT-NO: 5987633
DOCUMENT-IDENTIFIER: US 5987633 A

TITLE: System, method and article of manufacture for time point validation

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newman; Craig	Richardson	TX		
Badger; Brian	Dallas	TX		
Williams; Eugene	Dallas	TX		
Fry; Chris	Monument	CO		
Dierbeck; Mark	Colorado Springs	CO		

US-CL-CURRENT: 714/712; 379/10.03, 379/13, 379/15.01, 379/27.04

ABSTRACT:

A system software solution for testing various network elements/entities and processes in a telecommunications network is provided. A network under test contains network entities which save data to a common database that is associated with processing particular test cases. A server correlates database data from the network under test and compares it to anticipated test case results. A disposition of the test cases is determined. Various elements of the invention interface appropriately, and process accordingly, to accomplish the testing and test result (s) disposition. In addition, the test system provides a means to verify billing records within the telecommunications network. Integrated into the system is logic that captures timepoints associated with critical events in a phone call from a test application perspective (particularly the events important to correct billing) and comparing those timepoints with actual results from the tested network. Timepoints are time information with milestones in the progress of call processing. Time information of applicable network elements is first assured to be synchronized, or translated for consistency. The test application timepoints are gathered, compared to billing records associated with the test case (e.g. call), and used to produce an accurate test case result.

14 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 22. Document ID: US 5978940 A

L7: Entry 22 of 37 File: USPT Nov 2, 1999

US-PAT-NO: 5978940
DOCUMENT-IDENTIFIER: US 5978940 A

TITLE: System method and article of manufacture for test operations

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newman; Craig	Richardson	TX		
Badger; Brian	Dallas	TX		
Williams; Eugene	Dallas	TX		
Fry; Chris	Monument	CO		
Dierbeck; Mark	Colorado Springs	CO		

US-CL-CURRENT: 714/712

ABSTRACT:

A system software solution for testing various network elements/entities and processes in a telecommunications network is provided. A network under test

contains network entities which save data to a common database that is associated with processing particular test cases. A server correlates database data from the network under test and compares it to anticipated test case results. A disposition of the test cases is determined. Various elements of the invention interface appropriately, and process accordingly, to accomplish the testing and test result (s) disposition. In addition, the test system provides a means to verify billing records within the telecommunications network.

21 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 23. Document ID: US 5974569 A

L7: Entry 23 of 37 File: USPT Oct 26, 1999

US-PAT-NO: 5974569
DOCUMENT-IDENTIFIER: US 5974569 A
**** See image for Certificate of Correction ****

TITLE: System and method for determining whether time-based operations of a computer system operate properly

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nickles; Alfred E.	Duluth	GA	30155	

US-CL-CURRENT: 714/38; 714/33, 714/46

ABSTRACT:

Generally, the present invention is a method for identifying whether time-based operations of a computer system operate properly for time intervals over which the computer system operates. Specifically, the present invention is operative to identify the type of failure that occurs. The present invention utilizes test programs and test procedures to determine whether the hardware, BIOS, operating system, and computer language handle time and date calculations correctly. The present invention may identify a time period to be evaluated and divide the time period into a plurality of time intervals. This process accepts a first frequency value that specifies the frequency at which time test modules are to execute the time-based operations of the computer system. A first set of time-based test modules are executed at the frequency specified by the first frequency value in a first time interval. A second frequency value may be specified and the time test modules are executed at the frequency specified by second frequency value. The time test modules may be executed for a second time interval at the frequency specified by the second frequency value.

17 Claims, 15 Drawing figures
Exemplary Claim Number: 1,7
Number of Drawing Sheets: 16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 24. Document ID: US 5933309 A

L7: Entry 24 of 37 File: USPT Aug 3, 1999

US-PAT-NO: 5933309
DOCUMENT-IDENTIFIER: US 5933309 A

TITLE: Apparatus and method for monitoring the effects of contact resistance

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Douglas G.	Jericho	VT		

US-CL-CURRENT: 361/88; 324/715, 361/86

ABSTRACT:

An electronic module tester measures the difference between the voltage provided by the tester during testing and the voltage actually delivered to an electronic device. The difference corresponds to a voltage drop associated with the contamination contact resistance. This resistance builds up on contact surfaces of the tester as many modules are inserted and extracted. One power line and one ground line from the electronic module are isolated and connected to a voltmeter for a direct measurement of voltage on the device. A comparison is made with the power supply voltage provided by the tester to the device under test. A voltage difference exceeding a predetermined value initiates further action prior to continued testing, such as contact cleaning.

19 Claims, 11 Drawing figures
Exemplary Claim Number: 10
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 25. Document ID: US 5905856 A

L7: Entry 25 of 37 File: USPT May 18, 1999

US-PAT-NO: 5905856
DOCUMENT-IDENTIFIER: US 5905856 A

TITLE: Determination of software functionality

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ottensooser; Avner Benjamin	Randwick			AU

US-CL-CURRENT: 714/38

ABSTRACT:

A method of determining the functionality of a software system includes inputting a test plan to the software system via a software testing interface program, and logging an indication of one or more resulting outputs of the software system compared to expected output(s). The test plan invokes a sequence of test scripts and includes associated parameter inputs for the test scripts, and an expected output of the function or transaction of each test script. The test scripts are selected from a set of test scripts each able, when input to the software system via a software testing interface program, to prompt performance of a transaction or function for which the software system is designed.

58 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 26. Document ID: US 5870464 A

L7: Entry 26 of 37 File: USPT Feb 9, 1999

US-PAT-NO: 5870464
DOCUMENT-IDENTIFIER: US 5870464 A

TITLE: Intelligent information routing system and method

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brewster; James A.	Plano	TX		
Subramanian; Srikanth	Plano	TX		
Hite; Thomas D.	Allen	TX		
Lee; Gene W.	Plano	TX		
Brannick; Gary L.	Plano	TX		

US-CL-CURRENT: 379/219; 379/229, 379/266.07, 719/317

ABSTRACT:

An intelligent information router system comprising a telephony controller coupled to a private branch exchange through a link interface. The telephony controller may communicate with a handle manager and a script interpreter engine. The telephony controller may receive information from the link interface regarding telephone calls being placed to the private branch exchange. The telephony controller may

initiate actions with the script interpreter engine that access information stored in a database through a database controller. In response to action of the script interpreter engine, the telephony controller may instruct the private branch exchange to route the call to an appropriate location within a company depending on the information received by the private branch exchange through automatic transmission of data or interaction with the calling party.

42 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 27. Document ID: US 5787147 A

L7: Entry 27 of 37 File: USPT Jul 28, 1998

US-PAT-NO: 5787147
DOCUMENT-IDENTIFIER: US 5787147 A

TITLE: Test message generator in a telecommunications network

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gundersen; Hans	Richardson	TX		

US-CL-CURRENT: 379/10.03; 379/23, 379/31, 379/9.01

ABSTRACT:

A test message is constructed using a set of predefined natural language message types and keywords. The constructed test message is then interpreted during run-time and converted to a properly formatted Transaction Capable Application Part (TCAP) message. The converted TCAP message is transmitted to a telecommunications software module being tested. When a response to the transmitted TCAP message from the software module is received by the interpreter, it is compared against yet another test message constructed using a set of predefined natural language message types and keywords to verify the proper execution of the software module. If a difference exists, an error message is generated by the interpreter and recorded in a log file.

28 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 28. Document ID: US 5768500 A

L7: Entry 28 of 37 File: USPT Jun 16, 1998

US-PAT-NO: 5768500
DOCUMENT-IDENTIFIER: US 5768500 A

TITLE: Interrupt-based hardware support for profiling memory system performance

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Agrawal; Prathima	New Providence	NJ		
Goldberg; Aaron Jay	Princeton	NJ		
Trotter; John Andrew	Chatham	NJ		

US-CL-CURRENT: 714/47; 714/718, 717/130

ABSTRACT:

Fueled by higher clock rates and superscalar technologies, growth in processor speed continues to outpace improvement in memory system performance. Reflecting this trend, architects are developing increasingly complex memory hierarchies to mask the speed gap, compiler writers are adding locality enhancing transformations to better utilize complex memory hierarchies, and applications programmers are re-coding their algorithms to exploit memory systems. All of these groups need empirical data on memory behavior to guide their optimizations. This paper describes how to combine simple hardware support and sampling techniques to obtain such data without appreciably perturbing system performance. By augmenting a cache miss counter with a compare register and interrupt line such that the processor is interrupted when the counter matches the compare value, we can sample system state and develop cache miss profiles that associate cache misses with specific processes, procedures, call stacks, addresses, or user defined aspects of system state. This idea is implemented in the Mprof prototype that profiles data stall cycles, first level cache misses, and second level misses on the sun Sparc 10/41. Simple case studies are provided to illustrate Mprof's features.

15 Claims, 3 Drawing figures
Exemplary Claim Number: 15
Number of Drawing Sheets: 3

29. Document ID: US 5669000 A

L7: Entry 29 of 37 File: USPT Sep 16, 1997

US-PAT-NO: 5669000
DOCUMENT-IDENTIFIER: US 5669000 A
**** See image for Certificate of Correction ****

TITLE: Interpreter for performing remote testing of computer systems

DATE-ISSUED: September 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay Alan	Santa Clara	CA		
Nagarajan; Palanivelu	Campbell	CA		
Flynn; Sean Ludlow	Cupertino	CA		
Schneider; James Alan	San Jose	CA		

US-CL-CURRENT: 717/127; 717/134

ABSTRACT:

An interpretive language comprises instructions making up part of the first sequence of instructions (a test "script"). The first language comprises a first set of instructions, the first set of instructions causes a first computer system (a "host" in a preferred embodiment) to issue a series of commands to a second computer system (a "target") in order to cause the second computer system to emulate user activity on the second computer system. User activity includes emulating typing text and/or moving a mouse cursor position. The language further comprises a second set of instructions which cause the first computer system to issue a series of commands to the second computer system in order to cause the second computer system to respond to the first computer system with its state. This state includes user interface objects, and applications running in the target, etc. The language further comprises a third set of instructions, the third set of instructions causing the first computer system to issue a sequence of commands to the second computer system to respond in a predefined manner. These instructions indicate that the target computer system is to respond in within a given period of time, listen for further commands, etc. This is useful for repeatable and systematic testing of computer systems having a variety of hardware and software combinations for compatibility testing. Multitasking using "threads" for control of different targets using different test routines is also provided.

7 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☐ 30. Document ID: US 5640537 A

L7: Entry 30 of 37 File: USPT Jun 17, 1997

US-PAT-NO: 5640537
DOCUMENT-IDENTIFIER: US 5640537 A
**** See image for Certificate of Correction ****

TITLE: Apparatus for causing a computer system to respond to emulated user interaction in the absence of actual user interaction

DATE-ISSUED: June 17, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay Alan	Santa Clara	CA		

Nagarajan; Palanivelu	Campbell	CA
Flynn; Sean Ludlow	Cupertino	CA
Schneider; James Alan	San Jose	CA

US-CL-CURRENT: 703/23; 715/733

ABSTRACT:

An apparatus for testing a first computer system. Means for emulating user interaction on the first computer system and a means for determining the state of user interface objects on the display and the operating status of the first computer system is provided. In various embodiments, the means for emulating user interaction comprises a means for emulating keyboard and mouse input on the first computer system. The means for emulating mouse movement comprises a means for updating data structures in the first computer system, such that when the data structures are updated, user control of the keyboard and mouse is emulated. Means for determining the attributes of windows displayed on a display of the first computer system is provided, along with means for determining the attributes of menus on the displayed on the first computer system and means for determining the current position of the cursor of the first computer system, among other user interface objects. Abstractions of these user interface objects are transmitted between the first computer system and the testing means. The control of the first computer system is performed by a second computer system to provide repeatable testing on a variety of computer systems for diagnosis of faults.

17 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☐ 31. Document ID: US 5634002 A

L7: Entry 31 of 37 File: USPT May 27, 1997

US-PAT-NO: 5634002
DOCUMENT-IDENTIFIER: US 5634002 A

TITLE: Method and system for testing graphical user interface programs

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Polk; George A.	Sunnyvale	CA		
Ivanovic; Vladimir G.	Palo Alto	CA		
Muller; Hans E.	Saratoga	CA		
Kern; John S.	Mountain View	CA		
Jervis; Robert	Monte Sereno	CA		
DeLong; Rance	Los Gatos	CA		

US-CL-CURRENT: 714/38; 714/46

ABSTRACT:

In a preferred embodiment, the present invention provides an improved method and system for testing a graphical user interface program. The preferred embodiment provides improved performance over prior methods because it decouples the testing of an program's engine component from the testing of its GUI component. The preferred method begins the testing process by invoking test functions that send data to the program's engine component. The data simulates user action on the graphical user interface of the program. In response to receiving the data, the engine component processes the simulated user action as if it had been sent from the graphical user interface component. The preferred method captures the results of this processing and uses the results to determine whether the engine component is performing properly. By testing the engine component without invoking the graphical user interface component, the preferred embodiment reduces the overall time spent testing the GUI program and allows the testing of the program to begin at an earlier point in the development process than had earlier been possible.

19 Claims, 9 Drawing figures
Exemplary Claim Number: 11
Number of Drawing Sheets: 9

☐ 32. Document ID: US 5410681 A

L7: Entry 32 of 37 File: USPT Apr 25, 1995

US-PAT-NO: 5410681
DOCUMENT-IDENTIFIER: US 5410681 A
**** See image for Certificate of Correction ****

TITLE: Interpreter for performing remote testing of computer systems

DATE-ISSUED: April 25, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay A.	Santa Clara	CA		
Nagaraian; Palanivelu	Campbell	CA		
Flynn; Sean L.	Cupertino	CA		
Schneider; James A.	San Jose	CA		

US-CL-CURRENT: 703/27

ABSTRACT:

An interpretive language comprises instructions making up part of the first sequence of instructions (a test "script"). The first language comprises a first set of instructions, the first set of instructions causes a first computer system (a "host" in a preferred embodiment) to issue a series of commands to a second computer system (a "target") in order to cause the second computer system to emulate user activity on the second computer system. User activity includes emulating typing text and/or moving a mouse cursor position. The language further comprises a second set of instructions which cause the first computer system to

issue a series of commands to the second computer system in order to cause the second computer system to respond to the first computer system with its state. This state includes user interface objects, and applications running in the target, etc. The language further comprises a third set of instructions, the third set of instructions causing the first computer system to issue a sequence of commands to the second computer system to respond in a predefined manner. These instructions indicate that the target computer system is to respond in within a given period of time, listen for further commands, etc. This is useful for repeatable and systematic testing of computer systems having a variety of hardware and software combinations for compatibility testing. Multitasking using "threads" for control of different targets using different test routines is also provided.

18 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

33. Document ID: US 5231356 A

L7: Entry 33 of 37 File: USPT Jul 27, 1993

US-PAT-NO: 5231356
DOCUMENT-IDENTIFIER: US 5231356 A

TITLE: Flexible battery tester with a variable length resistive heater

DATE-ISSUED: July 27, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Parker; Robert	Alamo	CA	94301	

US-CL-CURRENT: 324/435; 324/104, 324/106, 324/427, 340/636.14, 340/636.15, 349/199, 429/90, 429/91

ABSTRACT:

A thermo-responsive device for testing dc voltage sources, particularly small, low voltage dry cells, employs a very thin resistive heater film deposited onto a thin flexible dielectric substrate. During testing the ends of the resistive film engage the pole terminals of the battery. Current from the battery flows through the resistive film and uniformly heats the substrate by resistance heating, causing a series of thermo-responsive elements mounted on the substrate to undergo visual "temperature events" at progressively higher temperatures. The resistive film is uniform in thickness and uniform in sheet resistivity. The current density and resistive heating of the film is therefore uniform throughout the substrate and the thermo-responsive elements. The uniform heating permits the thermo-responsive elements to be mounted anywhere on the substrate. The length of the resistive heater may be varied to vary the heating current and the heating temperature. The atomic thickness of the resistive film increases the crease resistance of the film and reduces the effects of bending fatigue.

40 Claims, 20 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 34. Document ID: US 5218605 A

L7: Entry 34 of 37 File: USPT Jun 8, 1993

US-PAT-NO: 5218605
DOCUMENT-IDENTIFIER: US 5218605 A

TITLE: Software modules for testing computer hardware and software

DATE-ISSUED: June 8, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Low; Danny	Mountain View	CA		
Tuttle; Myron R.	Santa Clara	CA		

US-CL-CURRENT: 714/45; 714/736

ABSTRACT:

A computer software-related device and method uses regression testing techniques for testing computer hardware and/or software application(s). Input data and commands from a user are stored, and are sent to a hardware/software system under test. Signatures (representative of visual display data) which are received (with a selected prevalence) as a result of the sent input data and commands are also stored. On command of a user, the stored signatures, input data and commands are subsequently sent to the hardware/software system under test, and new signatures are generated. These new signatures are compared with the stored signatures, and the results of this comparison are used as an indication that the hardware/software system under test is performing as expected.

7 Claims, 13 Drawing figures
Exemplary Claim Number: 7
Number of Drawing Sheets: 12

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 35. Document ID: US 5157782 A

L7: Entry 35 of 37 File: USPT Oct 20, 1992

US-PAT-NO: 5157782
DOCUMENT-IDENTIFIER: US 5157782 A

TITLE: System and method for testing computer hardware and software

DATE-ISSUED: October 20, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuttle; Myron R.	Santa Clara	CA		
Low; Danny	Mountain View	CA		

US-CL-CURRENT: 714/45; 714/25, 714/46, 714/732, 714/736

ABSTRACT:

A computer related system and method uses regression testing techniques for testing computer hardware and/or software application(s). Input data and commands from a user are stored on a host, and sent to an interface device, which then sends them to a hardware/software system under test. Visual display data on a visual display device is thereby affected. Signatures (representative of the visual display data) are generated by the interface device as a result of input data and commands sent to the interface device and system under test. These signatures are received and stored by the host. On command of a user, the stored signatures, input data and commands are subsequently sent to the hardware/software system under test, and new signatures are generated. These new signatures are compared with the stored signatures, and the results of this comparison are used as an indication that the hardware/software system under test is performing as expected.

46 Claims, 31 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 31

☐ 36. Document ID: US 5045994 A

L7: Entry 36 of 37 File: USPT Sep 3, 1991

US-PAT-NO: 5045994
DOCUMENT-IDENTIFIER: US 5045994 A
**** See image for Certificate of Correction ****

TITLE: Emulation process having several displayed input formats and output formats and windows for creating and testing computer systems

DATE-ISSUED: September 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Belfer; Daniel F.	Piscataway	NJ		
Lech; Ann G.	Middlesex	NJ		
Perelmuter; Isaac M.	West Orange	NJ		
Ward; Jerry J.	Matawan	NJ		

US-CL-CURRENT: 703/25

ABSTRACT:

A method of operating a computer system is disclosed that facilitates the creation and testing of application system software by utilizing an autonomous environment to emulate the application system environment. The emulation environment allows the user to call into view sequences of standard input-output (I/O) screen format pairs normally used to submit information to and receive information from the application system. In the emulation mode, these screens are prepared off-line and stored until the user desires to exercise the application system. Each input format is filled with information that will serve as actual input to the application system when it is exercised. Each output format is filled with information that comprises expected results when the application system is actually exercised. The expected results are compared to actual results after execution of each I/O pair and further application system processing is controlled by the comparison results. The stand-alone emulation environment provides editing and control routines and library functions to aid the user in defining and modifying the I/O sequences.

9 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

☐ 37. Document ID: US 4022979 A

L7: Entry 37 of 37 File: USPT May 10, 1977

US-PAT-NO: 4022979
DOCUMENT-IDENTIFIER: US 4022979 A

TITLE: Automatic in-service digital trunk checking circuit and method

DATE-ISSUED: May 10, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Nicholas Kimbrough	Naperville	IL		

US-CL-CURRENT: 370/244; 370/369, 370/535, 379/16

ABSTRACT:

The integrity of switched, time-division multiplexed digital trunks in a telephone switching system is verified on an individual and in-service basis wherein the digital check is accomplished incident to the conventional D.C. network path continuity verification by the switching system common controller. The terminal circuits serving the channel allow a common multiplexer-demultiplexer to insert a test code during the allocated time slot of the channel being tested and detect the same test code from a similarly-functioning testing arrangement at the far end of the digital channel. Failure of a comparison between sent and received codes results in the inhibition of a positive D. C. path check indication to the common controller.

18 Claims, 9 Drawing figures

Exemplary Claim Number: 14
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Drawi Dc

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Terms	Documents
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Search Results - Record(s) 1 through 37 of 37 returned.

☐ 1. Document ID: US 6810494 B2

L7: Entry 1 of 37 File: USPT Oct 26, 2004

US-PAT-NO: 6810494
DOCUMENT-IDENTIFIER: US 6810494 B2

TITLE: Software system and methods for testing transactional servers

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Tsoran			IL
Leshem; Eran	Gan Shomron			IL
Kholmyansky; Maxim	Tel-Aviv			IL
Garri; Amos	Modiin			IL
Tapiro; Nisim	Rishon-Letsion			IL
Hillel; Meni	San Jose	CA		

US-CL-CURRENT: 714/46; 714/32

ABSTRACT:

A testing tool records a user session with a transactional server and generates a test for subsequently testing the server. Through a user interface of the testing tool, the user can define verification steps to automatically test for expected server responses during test execution. The test is displayed to the user as a tree having nodes which represent steps of the test. Via the user interface, the user can modify node properties and perform other types of tree edit operations to edit the test, without the need to know a scripting or other programming language. When a user selects a node that corresponds to a particular field or other object of the server screen, the testing tool automatically displays the screen with the object highlighted. The testing tool also allows the test author to use a spreadsheet to conveniently specify data sets for running multiple iterations of a test.

37 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 2. Document ID: US 6775824 B1

L7: Entry 2 of 37 File: USPT Aug 10, 2004

US-PAT-NO: 6775824
DOCUMENT-IDENTIFIER: US 6775824 B1

TITLE: Method and system for software object testing

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Osborne, II; Theodore M.	Burlington	MA		
Glik; Michael V.	Newton	MA		
Vahey; Walter G.	Winchester	MA		
Baker; Caren H.	Waltham	MA		
Friedman; George	Framingham	MA		

US-CL-CURRENT: 717/125; 714/46, 714/703, 714/738

ABSTRACT:

A system for testing middleware of applications in the N-tiered model. The test system contains test code generators, test engines to execute multiple copies of the test code and a data analyzer to analyze and present the results to a human user. The system is able to automatically generate test code to exercise components of the middleware using information about these components that would otherwise be available to the application under test. Multiple copies of the test code are executed in a synchronized fashion. Execution times of multiple events are recorded and then presented in one of several formats. With the system, an application developer can identify components that represent performance bottlenecks or can gather information on deployment properties of individual components that can be used to enhance the performance of the application under test.

9 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

☐ 3. Document ID: US 6741967 B1

L7: Entry 3 of 37 File: USPT May 25, 2004

US-PAT-NO: 6741967
DOCUMENT-IDENTIFIER: US 6741967 B1

TITLE: Full service research bureau and test center method and apparatus

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Arthur F.	San Francisco	CA		
Ketchpel; Steven P.	Menlo Park	CA		

US-CL-CURRENT: 705/10; 705/1, 705/11, 705/500, 705/7

ABSTRACT:

A centralized full-service research bureau and test center method and apparatus is provided, which assists a customer, typically a Web product manager, in designing a usability test for typical tasks faced by a visitor to the customer's site. The centralized full-service research bureau and test center method and apparatus provides proprietary software to administer the usability test to a pre-qualified pool of testers meeting desired demographic constraints. The usability test measures not only the visitor's success in achieving objectives, but also prompts a tester for context-specific feedback ranging from aesthetics to behavior. Statistics are aggregated across the testing population and presented not just as data, but with recommended actions backed up by analysis.

53 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12



☐ 4. Document ID: US 6738933 B2

L7: Entry 4 of 37 File: USPT May 18, 2004

US-PAT-NO: 6738933
DOCUMENT-IDENTIFIER: US 6738933 B2

TITLE: Root cause analysis of server system performance degradations

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraenkel; Noam A.	Jerusalem			IL
Goldstein; Guy	Ramat-Hasharon			IL
Sarig; Ido	Palo Alto	CA		
Haddad; Refael	Modi'in			IL

US-CL-CURRENT: 714/47; 702/186, 714/25, 714/26

ABSTRACT:

A system for monitoring and analyzing the post-deployment performance of a web-based or other transactional server is disclosed. The monitoring system includes agent components that monitor and report various performance parameters associated with the transactional server, such as response times seen by end users, server and

network times, and various server resource utilization parameters. A web-based reports server displays the data collected by the agents through a series of charts and graphs that indicate whether correlations exist between the response times and lower level parameters. A root cause analysis system applies statistical algorithms to the collected data to detect performance degradations in specific parameters, and uses predefined parameter dependency rules to correlate high level performance problems to likely sources or causes of such problems.

24 Claims, 45 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 45

☐ 5. Document ID: US 6718535 B1

L7: Entry 5 of 37 File: USPT Apr 6, 2004

US-PAT-NO: 6718535
DOCUMENT-IDENTIFIER: US 6718535 B1
**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for an activity framework design in an e-commerce based environment

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/101; 717/120

ABSTRACT:

A system and method are provided for providing an activity framework. First, a plurality of sub-activities are created which each include sub-activity logic adapted to generate an output based on an input received from a user upon execution. Second, a plurality of activities are defined which each execute the sub-activities in a unique manner upon being selected for accomplishing a goal associated with the activity. Selection of one of the activities is allowed by receiving user indicia. An interface is depicted for allowing receipt of the input and display of the output during execution of the sub-activities associated with the selected activity.

24 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 6. Document ID: US 6704873 B1

L7: Entry 6 of 37 File: USPT Mar 9, 2004

US-PAT-NO: 6704873
DOCUMENT-IDENTIFIER: US 6704873 B1

TITLE: Secure gateway interconnection in an e-commerce based environment

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 713/201; 709/223, 709/249

ABSTRACT:

A system and method of providing a global internetworking gateway architecture in an e-commerce environment are provided. A plurality of gateways each situated in a distinct geographic location are coupled to an internet. A wide area network, separate from the internet, is coupled to each of the gateways for providing communication between the wide area network and the internet. Coupled to the wide area network is a central database for providing a central storage for data used in e-commerce carried out over the internet. In one embodiment, at least one of the gateways includes at least one screening router coupled to the internet service provider, at least one firewall connected to the screening router, and a choker router coupled between the wide area network and the firewall.

16 Claims, 179 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 7. Document ID: US 6701514 B1

L7: Entry 7 of 37 File: USPT Mar 2, 2004

US-PAT-NO: 6701514
DOCUMENT-IDENTIFIER: US 6701514 B1

TITLE: System, method, and article of manufacture for test maintenance in an automated scripting framework

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		

Schramm; Kevin Rose Valley PA

US-CL-CURRENT: 717/115; 707/102, 717/124

ABSTRACT:

A system, method and article of manufacture are provided for affording test maintenance in an automated scripting framework. First, a plurality of test scripts are developed. Then, the plurality of test scripts are stored in a centrally located database. A user is then allowed to edit a specific test script located on the centrally located database. Finally, the user edits to the specific test script are propagated to each of the plurality of test scripts.

18 Claims, 82 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

☐ 8. Document ID: US 6658646 B1

L7: Entry 8 of 37 File: USPT Dec 2, 2003

US-PAT-NO: 6658646
DOCUMENT-IDENTIFIER: US 6658646 B1

TITLE: Multiple interface scripting language

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hernandez, III; Gaspar	Andover	NJ		

US-CL-CURRENT: 717/115; 717/114, 717/116, 717/117, 717/141, 717/142, 717/143

ABSTRACT:

For a large system having an associated monitoring system with one or more user interfaces that each requires a large amount of direct user interaction, a scripting language especially well suited to write a script (that generates liaison interface between the user and the existing user interfaces) is provided. The liaison interface requires much less direct user interaction by taking the place of the user in the extensive direct interaction required by the existing user interfaces. Such a scripting language that includes an integration construct data structure that permits commands of discrete interfaces to be integrated in a single script that is to be executed by a machine. Also provided are scripts according to the scripting language, that include at least two of the integration construct data structures.

26 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

9. Document ID: US 6633878 B1

L7: Entry 9 of 37 File: USPT Oct 14, 2003

US-PAT-NO: 6633878
DOCUMENT-IDENTIFIER: US 6633878 B1

TITLE: Initializing an ecommerce database framework

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/100; 707/1, 707/102, 707/205

ABSTRACT:

A system, method and article of manufacture are provided for initializing a database used with an issue tracker. The issue tracker receives information relating to a plurality of issues from a plurality of users, displays the information relating to the issues, and allows the browsing of the information relating to each of the issues. To initialize the database, the information relating to the issues is stored in a first database. A second database is also provided that stores tables including: a plurality of user interfaces; and/or application logic for accessing the information in the first database. The tables of the second database are reconfigured upon migrating the first database from a first folder to a second folder.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

10. Document ID: US 6609128 B1

L7: Entry 10 of 37 File: USPT Aug 19, 2003

US-PAT-NO: 6609128
DOCUMENT-IDENTIFIER: US 6609128 B1

TITLE: Codes table framework design in an E-commerce architecture

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/10; 707/200

ABSTRACT:

A system, method and article of manufacture are provided for maintaining application consistency. First, a table of codes and associated text phrases are provided. Such table of codes is stored on a local storage medium within an e-commerce computer architecture. Next, the table of codes is accessed on the local storage medium within the e-commerce computer architecture. One of the text phrases is subsequently retrieved by selecting a corresponding one of the codes of the table. During operation, modification of the text phrases associated with each of the codes of the table is permitted. A plurality of services are executed, including retrieving a single one of the text phrases, retrieving all of the text phrases in response to a single command, updating a single code and text phrase combination, updating all of the code and text phrase combinations, naming the table, adding a new code and text phrase combination, removing one of the code and text phrase combination, and adding another table.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

11. Document ID: US 6601233 B1

L7: Entry 11 of 37 File: USPT Jul 29, 2003

US-PAT-NO: 6601233
DOCUMENT-IDENTIFIER: US 6601233 B1
**** See image for Certificate of Correction ****

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of logical business components in a business are first defined with each business component having a plurality of capabilities. Next, functional interrelationships are identified between the logical business components. Code modules are then generated to carry out the capabilities of the logical business components and the

functional interrelationships between the logical business components, wherein the code modules represent a transformation of the logical business components to their physical implementation, while ensuring the capabilities that are carried out by each code module are essentially unique to the logical business component associated with the code module. Next, the functional aspects of the code modules and the functional relationships of the code modules are tested. The code modules are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 12. Document ID: US 6587969 B1

L7: Entry 12 of 37 File: USPT Jul 1, 2003

US-PAT-NO: 6587969
DOCUMENT-IDENTIFIER: US 6587969 B1

TITLE: Software system and methods for testing the functionality of a transactional server

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Tsoran			IL
Leshem; Eran	Gan Shomron			IL
Kholmyansky; Maxim	Tel-Aviv			IL
Garri; Amos	Modiin			IL
Tapiro; Nisim	Letsion			IL
Hillel; Meni	San Jose	CA		

US-CL-CURRENT: 714/46; 714/38

ABSTRACT:

A testing tool automatically records a series of user steps taken during a user session with a transactional server and generates a test for testing the functionality of server. Through a user interface of the testing tool, the user can define verification steps to automatically test for expected server responses during test execution. The testing tool displays the test to the user as a tree having nodes (displayed as icons) which represent steps of the test. Via the user interface, the user can modify node properties and perform other types of tree edit operations to edit the test, without the need to know a scripting or other programming language. When the user selects a node that corresponds to a particular field or other object of the server screen, the testing tool automatically displays the screen with the object highlighted. The testing tool also allows the test author to use a spreadsheet to conveniently specify data sets for running multiple iterations of a test; thus, the user can record a single transaction and then automatically test the transaction with other data sets.

55 Claims, 23 Drawing figures
Exemplary Claim Number: 40
Number of Drawing Sheets: 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 13. Document ID: US 6571285 B1

L7: Entry 13 of 37 File: USPT May 27, 2003

US-PAT-NO: 6571285
DOCUMENT-IDENTIFIER: US 6571285 B1

TITLE: Providing an integrated service assurance environment for a network

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Groath; Steve G.	Burnsville	MN		
Miller; Myke L.	Excelsior	MN		
Sachse; Christopher	Maplewood	MN		
Bloom; Jeremy D.	San Francisco	CA		
Turkson; Leslie T.	Eagan	MN		
Lund; Timothy	Lakeville	MN		
Beskar; Patrick J.	Mahotmedi	MN		

US-CL-CURRENT: 709/223; 370/352, 370/389, 709/224

ABSTRACT:

A method providing service assurance for a network to maintain an agreed upon Quality of Service. First, an alarm is generated to indicate a status of a network. The generation of the alarm comprises selecting a parameter of network to be monitored; determining a triggering level of the parameter; monitoring the parameter of an occurrence of the triggering level; and initiating alarm notification upon the monitored occurrence of the triggering level. Network event information is then dispatched upon generation of the alarm and is subsequently mapped. The data collected on the status of the network is then manipulated by concatenating the data collected on a network into a master file; reformatting the data into a standarized format; translating the data to key codes; sorting the data according to predetermined criteria; and concatenating the sorted data together. The data is then sorted in a database. Thereafter, network availability is conveyed graphically.

12 Claims, 39 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 37

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 14. Document ID: US 6539538 B1

L7: Entry 14 of 37 File: USPT Mar 25, 2003

US-PAT-NO: 6539538
DOCUMENT-IDENTIFIER: US 6539538 B1

TITLE: Intelligent information routing system and method

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brewster; James A.	Plano	TX		
Subramanian; Srikanth	Plano	TX		
Hite; Thomas D.	Allen	TX		
Lee; Gene W.	Plano	TX		
Brannick; Gary L.	Plano	TX		

US-CL-CURRENT: 717/115; 379/10.03, 717/100, 717/101

ABSTRACT:

An intelligent information router system comprising a telephony controller coupled to a private branch exchange through a link interface. The telephony controller may communicate with a handle manager and a script interpreter engine. The telephony controller may receive information from the link interface regarding telephone calls being placed to the private branch exchange. The telephony controller may initiate actions with the script interpreter engine that access information stored in a database through a database controller. In response to action of the script interpreter engine, the telephony controller may instruct the private branch exchange to route the call to an appropriate location within a company depending on the information received by the private branch exchange through automatic transmission of data or interaction with the calling party.

5 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 15. Document ID: US 6523027 B1

L7: Entry 15 of 37 File: USPT Feb 18, 2003

US-PAT-NO: 6523027
DOCUMENT-IDENTIFIER: US 6523027 B1
**** See image for Certificate of Correction ****

TITLE: Interfacing servers in a Java based e-commerce architecture

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/4; 707/10, 707/100

ABSTRACT:

A system, method and article of manufacture are provided for providing an interface between a first server and a second server with a proxy component situated therebetween. Initially, a request for a business object is identified by an application on the first server. The first server is then connected to the second server. Next, selection criteria from the first server is transmitted to the second server. In response to the selection criteria, the first server receives a first recordset and a second recordset from the second server. Business data is included in the first recordset and result codes are included in the second recordset. The first and second recordsets are mapped to the business object and the business object is sent to the application on the first server.

18 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

☐ 16. Document ID: US 6502102 B1

L7: Entry 16 of 37 File: USPT Dec 31, 2002

US-PAT-NO: 6502102
DOCUMENT-IDENTIFIER: US 6502102 B1
**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for a table-driven automated scripting architecture

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		
Schramm; Kevin	Rose Valley	PA		

US-CL-CURRENT: 707/102

ABSTRACT:

A system, method and article of manufacture are provided for affording a table-driven automated scripting architecture. First, test script information is divided

into a plurality of components of one or more words having a commonly understood meaning. Then the components are stored into a database. Later, the components are parsed into one or more words (each having a commonly understood meaning). The database is queried for the words to retrieve a set of computer instructions that cause a computer to perform functions related to the commonly understood meaning of the words and then to perform those functions.

20 Claims, 82 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 51

☐ 17. Document ID: US 6360332 B1

L7: Entry 17 of 37 File: USPT Mar 19, 2002

US-PAT-NO: 6360332
DOCUMENT-IDENTIFIER: US 6360332 B1

TITLE: Software system and methods for testing the functionality of a transactional server

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Tsoran			IL
Leshem; Eran	Gan Shomron			IL
Kholmyansky; Maxim	Tel-Aviv			IL
Garri; Amos	Modiin			IL
Tapiro; Nisim	Letsion			IL
Hillel; Meni	San Jose	CA		

US-CL-CURRENT: 714/4; 714/38

ABSTRACT:

A testing tool automatically records a series of user steps taken during a user session with a transactional server and generates a test for testing the functionality of server. Through a user interface of the testing tool, the user can define verification steps to automatically test for expected server responses during test execution. The testing tool displays the test to the user as a tree having nodes (displayed as icons) which represent steps of the test. Via the user interface, the user can modify node properties and perform other types of tree edit operations to edit the test, without the need to know a scripting or other programming language. When the user selects a node that corresponds to a particular field or other object of the server screen, the testing tool automatically displays the screen with the object highlighted. The testing tool also allows the test author to use a spreadsheet to conveniently specify data sets for running multiple iterations of a test; thus, the user can record a single transaction and then automatically test the transaction with other data sets.

23 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 18. Document ID: US 6243862 B1

L7: Entry 18 of 37 File: USPT Jun 5, 2001

US-PAT-NO: 6243862
DOCUMENT-IDENTIFIER: US 6243862 B1

TITLE: Methods and apparatus for testing components of a distributed transaction processing system

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lebow; Max A.	Philadelphia	PA		

US-CL-CURRENT: 717/131; 702/119, 717/115, 717/143

ABSTRACT:

A computer executable test language is provided for testing a component of a distributed transaction processing system implemented in accordance with the X/Open Distributed Transaction Processing model and supporting the XATMI application programming interface of said model (XATMI API). The test language comprises a plurality of commands, each command corresponding to a respective one of the function calls of the XATMI API. At least some of the commands of the test language have a syntax and semantics that requires a lesser number of parameters to be supplied with the command than the formal syntax of the corresponding function call of the XATMI API, thus hiding the complexities of the XATMI API from the test operator. A client program of the test environment comprises an interpreter of the test language that determines from a parsed test command whether any parameters required by the formal syntax of the XATMI API have not been supplied, generates default values for any unsupplied parameters, constructs the corresponding function call of the XATMI API in accordance with its formal syntax using the generated defaults, and issues the constructed function call to the component under test. A server program of the test environment comprises at least one service that provides an expected response to a function call issued by the client program.

32 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 19. Document ID: US 6073160 A

L7: Entry 19 of 37 File: USPT Jun 6, 2000

US-PAT-NO: 6073160
DOCUMENT-IDENTIFIER: US 6073160 A

TITLE: Document communications controller

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grantham; Paul V.	Burlingame	CA		
Lyles; Joseph B.	Mountain View	CA		
Smith; William T.	Belmont	CA		

US-CL-CURRENT: 709/200; 705/40, 709/202, 709/218, 709/219

ABSTRACT:

The present invention is a method and apparatus for providing a general-purpose, multifunction, individually addressable, full-bandwidth bi-directional communication device with built-in Authentication, Authorization, and Accounting (AAA) capabilities that connects a home or business user with ATM and other switched broadband digital networks in a convenient, adaptable, extensible manner at reasonable cost. The device supports a Document Services Architecture (DSA) and, in particular, supports agent-based communications (including interaction with an Agent Instance Service) to ensure well-behaved communications and fair allocation of network resources among users. The device can be used in a heterogeneous environment and with different types of networks and protocols. The full-bandwidth bi-directional communication and built-in AAA capabilities of the device distinguish it from other "set-top boxes."

7 Claims, 21 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 21

☐ 20. Document ID: US 6006242 A

L7: Entry 20 of 37 File: USPT Dec 21, 1999

US-PAT-NO: 6006242
DOCUMENT-IDENTIFIER: US 6006242 A

TITLE: Apparatus and method for dynamically creating a document

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poole; Donald L.	St. Cloud	MN		

Wyman; Richard K. St. Cloud MN

US-CL-CURRENT: 715/531

ABSTRACT:

An apparatus and method for dynamically constructing electronic and printable documents and forms. An entity reference is read from a document instance and compared to entity identifiers provided in a catalog containing a plurality of entity identifiers. Each of the entity identifiers in the catalog is associated with an entity resolution process. An inference engine or other entity resolving processor is invoked to effectuate the resolution process associated with a matching entity identifier. The inference engine or entity resolving processor resolves the entity reference to a resolved entity, such as a component of text or graphics to be included in a document. Linking between the document, entity reference, and resolved entity provides for detailed auditing of the entity resolution process. A resolved entity may contain one or more embedded entity references which are similarly resolved. The dynamic document construction methodology may be implemented using a distributed networking approach, or on a stand-alone computer system. A significant advantage of the present invention concerns the re-usability of textual, graphical, and other components, thereby providing for the construction of any arbitrary document type having any arbitrary number of presentation formats. In one embodiment, the inference engine used to resolve entity references is converted to an executable form to enhance portability. A document or form constructed in accordance with the present invention may be published in printed or electronic form, such as in the form of a World Wide Web (Web) page.

26 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 29

21. Document ID: US 5987633 A

L7: Entry 21 of 37 File: USPT Nov 16, 1999

US-PAT-NO: 5987633
DOCUMENT-IDENTIFIER: US 5987633 A

TITLE: System, method and article of manufacture for time point validation

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newman; Craig	Richardson	TX		
Badger; Brian	Dallas	TX		
Williams; Eugene	Dallas	TX		
Fry; Chris	Monument	CO		
Dierbeck; Mark	Colorado Springs	CO		

US-CL-CURRENT: 714/712; 379/10.03, 379/13, 379/15.01, 379/27.04

ABSTRACT:

A system software solution for testing various network elements/entities and processes in a telecommunications network is provided. A network under test contains network entities which save data to a common database that is associated with processing particular test cases. A server correlates database data from the network under test and compares it to anticipated test case results. A disposition of the test cases is determined. Various elements of the invention interface appropriately, and process accordingly, to accomplish the testing and test result (s) disposition. In addition, the test system provides a means to verify billing records within the telecommunications network. Integrated into the system is logic that captures timepoints associated with critical events in a phone call from a test application perspective (particularly the events important to correct billing) and comparing those timepoints with actual results from the tested network. Timepoints are time information with milestones in the progress of call processing. Time information of applicable network elements is first assured to be synchronized, or translated for consistency. The test application timepoints are gathered, compared to billing records associated with the test case (e.g. call), and used to produce an accurate test case result.

14 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 22. Document ID: US 5978940 A

L7: Entry 22 of 37 File: USPT Nov 2, 1999

US-PAT-NO: 5978940
DOCUMENT-IDENTIFIER: US 5978940 A

TITLE: System method and article of manufacture for test operations

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newman; Craig	Richardson	TX		
Badger; Brian	Dallas	TX		
Williams; Eugene	Dallas	TX		
Fry; Chris	Monument	CO		
Dierbeck; Mark	Colorado Springs	CO		

US-CL-CURRENT: 714/712

ABSTRACT:

A system software solution for testing various network elements/entities and processes in a telecommunications network is provided. A network under test

contains network entities which save data to a common database that is associated with processing particular test cases. A server correlates database data from the network under test and compares it to anticipated test case results. A disposition of the test cases is determined. Various elements of the invention interface appropriately, and process accordingly, to accomplish the testing and test result (s) disposition. In addition, the test system provides a means to verify billing records within the telecommunications network.

21 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 23. Document ID: US 5974569 A

L7: Entry 23 of 37 File: USPT Oct 26, 1999

US-PAT-NO: 5974569
DOCUMENT-IDENTIFIER: US 5974569 A
**** See image for Certificate of Correction ****

TITLE: System and method for determining whether time-based operations of a computer system operate properly

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nickles; Alfred E.	Duluth	GA	30155	

US-CL-CURRENT: 714/38; 714/33, 714/46

ABSTRACT:

Generally, the present invention is a method for identifying whether time-based operations of a computer system operate properly for time intervals over which the computer system operates. Specifically, the present invention is operative to identify the type of failure that occurs. The present invention utilizes test programs and test procedures to determine whether the hardware, BIOS, operating system, and computer language handle time and date calculations correctly. The present invention may identify a time period to be evaluated and divide the time period into a plurality of time intervals. This process accepts a first frequency value that specifies the frequency at which time test modules are to execute the time-based operations of the computer system. A first set of time-based test modules are executed at the frequency specified by the first frequency value in a first time interval. A second frequency value may be specified and the time test modules are executed at the frequency specified by second frequency value. The time test modules may be executed for a second time interval at the frequency specified by the second frequency value.

17 Claims, 15 Drawing figures
Exemplary Claim Number: 1,7
Number of Drawing Sheets: 16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 24. Document ID: US 5933309 A

L7: Entry 24 of 37 File: USPT Aug 3, 1999

US-PAT-NO: 5933309
DOCUMENT-IDENTIFIER: US 5933309 A

TITLE: Apparatus and method for monitoring the effects of contact resistance

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Douglas G.	Jericho	VT		

US-CL-CURRENT: 361/88; 324/715, 361/86

ABSTRACT:

An electronic module tester measures the difference between the voltage provided by the tester during testing and the voltage actually delivered to an electronic device. The difference corresponds to a voltage drop associated with the contamination contact resistance. This resistance builds up on contact surfaces of the tester as many modules are inserted and extracted. One power line and one ground line from the electronic module are isolated and connected to a voltmeter for a direct measurement of voltage on the device. A comparison is made with the power supply voltage provided by the tester to the device under test. A voltage difference exceeding a predetermined value initiates further action prior to continued testing, such as contact cleaning.

19 Claims, 11 Drawing figures
Exemplary Claim Number: 10
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☑ 25. Document ID: US 5905856 A

L7: Entry 25 of 37 File: USPT May 18, 1999

US-PAT-NO: 5905856
DOCUMENT-IDENTIFIER: US 5905856 A

TITLE: Determination of software functionality

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ottensooser; Avner Benjamin	Randwick			AU

US-CL-CURRENT: 714/38

ABSTRACT:

A method of determining the functionality of a software system includes inputting a test plan to the software system via a software testing interface program, and logging an indication of one or more resulting outputs of the software system compared to expected output(s). The test plan invokes a sequence of test scripts and includes associated parameter inputs for the test scripts, and an expected output of the function or transaction of each test script. The test scripts are selected from a set of test scripts each able, when input to the software system via a software testing interface program, to prompt performance of a transaction or function for which the software system is designed.

58 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 26. Document ID: US 5870464 A

L7: Entry 26 of 37 File: USPT Feb 9, 1999

US-PAT-NO: 5870464
DOCUMENT-IDENTIFIER: US 5870464 A

TITLE: Intelligent information routing system and method

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brewster; James A.	Plano	TX		
Subramanian; Srikanth	Plano	TX		
Hite; Thomas D.	Allen	TX		
Lee; Gene W.	Plano	TX		
Brannick; Gary L.	Plano	TX		

US-CL-CURRENT: 379/219; 379/229, 379/266.07, 719/317

ABSTRACT:

An intelligent information router system comprising a telephony controller coupled to a private branch exchange through a link interface. The telephony controller may communicate with a handle manager and a script interpreter engine. The telephony controller may receive information from the link interface regarding telephone calls being placed to the private branch exchange. The telephony controller may

initiate actions with the script interpreter engine that access information stored in a database through a database controller. In response to action of the script interpreter engine, the telephony controller may instruct the private branch exchange to route the call to an appropriate location within a company depending on the information received by the private branch exchange through automatic transmission of data or interaction with the calling party.

42 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 27. Document ID: US 5787147 A

L7: Entry 27 of 37 File: USPT Jul 28, 1998

US-PAT-NO: 5787147
DOCUMENT-IDENTIFIER: US 5787147 A

TITLE: Test message generator in a telecommunications network

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gundersen; Hans	Richardson	TX		

US-CL-CURRENT: 379/10.03; 379/23, 379/31, 379/9.01

ABSTRACT:

A test message is constructed using a set of predefined natural language message types and keywords. The constructed test message is then interpreted during run-time and converted to a properly formatted Transaction Capable Application Part (TCAP) message. The converted TCAP message is transmitted to a telecommunications software module being tested. When a response to the transmitted TCAP message from the software module is received by the interpreter, it is compared against yet another test message constructed using a set of predefined natural language message types and keywords to verify the proper execution of the software module. If a difference exists, an error message is generated by the interpreter and recorded in a log file.

28 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 28. Document ID: US 5768500 A

L7: Entry 28 of 37 File: USPT Jun 16, 1998

US-PAT-NO: 5768500
DOCUMENT-IDENTIFIER: US 5768500 A

TITLE: Interrupt-based hardware support for profiling memory system performance

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Agrawal; Prathima	New Providence	NJ		
Goldberg; Aaron Jay	Princeton	NJ		
Trotter; John Andrew	Chatham	NJ		

US-CL-CURRENT: 714/47; 714/718, 717/130

ABSTRACT:

Fueled by higher clock rates and superscalar technologies, growth in processor speed continues to outpace improvement in memory system performance. Reflecting this trend, architects are developing increasingly complex memory hierarchies to mask the speed gap, compiler writers are adding locality enhancing transformations to better utilize complex memory hierarchies, and applications programmers are re-coding their algorithms to exploit memory systems. All of these groups need empirical data on memory behavior to guide their optimizations. This paper describes how to combine simple hardware support and sampling techniques to obtain such data without appreciably perturbing system performance. By augmenting a cache miss counter with a compare register and interrupt line such that the processor is interrupted when the counter matches the compare value, we can sample system state and develop cache miss profiles that associate cache misses with specific processes, procedures, call stacks, addresses, or user defined aspects of system state. This idea is implemented in the Mprof prototype that profiles data stall cycles, first level cache misses, and second level misses on the sun Sparc 10/41. Simple case studies are provided to illustrate Mprof's features.

15 Claims, 3 Drawing figures
Exemplary Claim Number: 15
Number of Drawing Sheets: 3

29. Document ID: US 5669000 A

L7: Entry 29 of 37 File: USPT Sep 16, 1997

US-PAT-NO: 5669000
DOCUMENT-IDENTIFIER: US 5669000 A
**** See image for Certificate of Correction ****

TITLE: Interpreter for performing remote testing of computer systems

DATE-ISSUED: September 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay Alan	Santa Clara	CA		
Nagarajan; Palanivelu	Campbell	CA		
Flynn; Sean Ludlow	Cupertino	CA		
Schneider; James Alan	San Jose	CA		

US-CL-CURRENT: 717/127; 717/134

ABSTRACT:

An interpretive language comprises instructions making up part of the first sequence of instructions (a test "script"). The first language comprises a first set of instructions, the first set of instructions causes a first computer system (a "host" in a preferred embodiment) to issue a series of commands to a second computer system (a "target") in order to cause the second computer system to emulate user activity on the second computer system. User activity includes emulating typing text and/or moving a mouse cursor position. The language further comprises a second set of instructions which cause the first computer system to issue a series of commands to the second computer system in order to cause the second computer system to respond to the first computer system with its state. This state includes user interface objects, and applications running in the target, etc. The language further comprises a third set of instructions, the third set of instructions causing the first computer system to issue a sequence of commands to the second computer system to respond in a predefined manner. These instructions indicate that the target computer system is to respond in within a given period of time, listen for further commands, etc. This is useful for repeatable and systematic testing of computer systems having a variety of hardware and software combinations for compatibility testing. Multitasking using "threads" for control of different targets using different test routines is also provided.

7 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☑ 30. Document ID: US 5640537 A

L7: Entry 30 of 37 File: USPT Jun 17, 1997

US-PAT-NO: 5640537
DOCUMENT-IDENTIFIER: US 5640537 A
**** See image for Certificate of Correction ****

TITLE: Apparatus for causing a computer system to respond to emulated user interaction in the absence of actual user interaction

DATE-ISSUED: June 17, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay Alan	Santa Clara	CA		

Nagarajan; Palanivelu	Campbell	CA
Flynn; Sean Ludlow	Cupertino	CA
Schneider; James Alan	San Jose	CA

US-CL-CURRENT: 703/23; 715/733

ABSTRACT:

An apparatus for testing a first computer system. Means for emulating user interaction on the first computer system and a means for determining the state of user interface objects on the display and the operating status of the first computer system is provided. In various embodiments, the means for emulating user interaction comprises a means for emulating keyboard and mouse input on the first computer system. The means for emulating mouse movement comprises a means for updating data structures in the first computer system, such that when the data structures are updated, user control of the keyboard and mouse is emulated. Means for determining the attributes of windows displayed on a display of the first computer system is provided, along with means for determining the attributes of menus on the displayed on the first computer system and means for determining the current position of the cursor of the first computer system, among other user interface objects. Abstractions of these user interface objects are transmitted between the first computer system and the testing means. The control of the first computer system is performed by a second computer system to provide repeatable testing on a variety of computer systems for diagnosis of faults.

17 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☑ 31. Document ID: US 5634002 A

L7: Entry 31 of 37 File: USPT May 27, 1997

US-PAT-NO: 5634002
DOCUMENT-IDENTIFIER: US 5634002 A

TITLE: Method and system for testing graphical user interface programs

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Polk; George A.	Sunnyvale	CA		
Ivanovic; Vladimir G.	Palo Alto	CA		
Muller; Hans E.	Saratoga	CA		
Kern; John S.	Mountain View	CA		
Jervis; Robert	Monte Sereno	CA		
DeLong; Rance	Los Gatos	CA		

US-CL-CURRENT: 714/38; 714/46

ABSTRACT:

In a preferred embodiment, the present invention provides an improved method and system for testing a graphical user interface program. The preferred embodiment provides improved performance over prior methods because it decouples the testing of an program's engine component from the testing of its GUI component. The preferred method begins the testing process by invoking test functions that send data to the program's engine component. The data simulates user action on the graphical user interface of the program. In response to receiving the data, the engine component processes the simulated user action as if it had been sent from the graphical user interface component. The preferred method captures the results of this processing and uses the results to determine whether the engine component is performing properly. By testing the engine component without invoking the graphical user interface component, the preferred embodiment reduces the overall time spent testing the GUI program and allows the testing of the program to begin at an earlier point in the development process than had earlier been possible.

19 Claims, 9 Drawing figures
Exemplary Claim Number: 11
Number of Drawing Sheets: 9

32. Document ID: US 5410681 A

L7: Entry 32 of 37 File: USPT Apr 25, 1995

US-PAT-NO: 5410681
DOCUMENT-IDENTIFIER: US 5410681 A
**** See image for Certificate of Correction ****

TITLE: Interpreter for performing remote testing of computer systems

DATE-ISSUED: April 25, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessen; Jay A.	Santa Clara	CA		
Nagaraian; Palanivelu	Campbell	CA		
Flynn; Sean L.	Cupertino	CA		
Schneider; James A.	San Jose	CA		

US-CL-CURRENT: 703/27

ABSTRACT:

An interpretive language comprises instructions making up part of the first sequence of instructions (a test "script"). The first language comprises a first set of instructions, the first set of instructions causes a first computer system (a "host" in a preferred embodiment) to issue a series of commands to a second computer system (a "target") in order to cause the second computer system to emulate user activity on the second computer system. User activity includes emulating typing text and/or moving a mouse cursor position. The language further comprises a second set of instructions which cause the first computer system to

issue a series of commands to the second computer system in order to cause the second computer system to respond to the first computer system with its state. This state includes user interface objects, and applications running in the target, etc. The language further comprises a third set of instructions, the third set of instructions causing the first computer system to issue a sequence of commands to the second computer system to respond in a predefined manner. These instructions indicate that the target computer system is to respond in within a given period of time, listen for further commands, etc. This is useful for repeatable and systematic testing of computer systems having a variety of hardware and software combinations for compatibility testing. Multitasking using "threads" for control of different targets using different test routines is also provided.

18 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

33. Document ID: US 5231356 A

L7: Entry 33 of 37 File: USPT Jul 27, 1993

US-PAT-NO: 5231356
DOCUMENT-IDENTIFIER: US 5231356 A

TITLE: Flexible battery tester with a variable length resistive heater

DATE-ISSUED: July 27, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Parker; Robert	Alamo	CA	94301	

US-CL-CURRENT: 324/435; 324/104, 324/106, 324/427, 340/636.14, 340/636.15, 349/199, 429/90, 429/91

ABSTRACT:

A thermo-responsive device for testing dc voltage sources, particularly small, low voltage dry cells, employs a very thin resistive heater film deposited onto a thin flexible dielectric substrate. During testing the ends of the resistive film engage the pole terminals of the battery. Current from the battery flows through the resistive film and uniformly heats the substrate by resistance heating, causing a series of thermo-responsive elements mounted on the substrate to undergo visual "temperature events" at progressively higher temperatures. The resistive film is uniform in thickness and uniform in sheet resistivity. The current density and resistive heating of the film is therefore uniform throughout the substrate and the thermo-responsive elements. The uniform heating permits the thermo-responsive elements to be mounted anywhere on the substrate. The length of the resistive heater may be varied to vary the heating current and the heating temperature. The atomic thickness of the resistive film increases the crease resistance of the film and reduces the effects of bending fatigue.

40 Claims, 20 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 34. Document ID: US 5218605 A

L7: Entry 34 of 37 File: USPT Jun 8, 1993

US-PAT-NO: 5218605
DOCUMENT-IDENTIFIER: US 5218605 A

TITLE: Software modules for testing computer hardware and software

DATE-ISSUED: June 8, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Low; Danny	Mountain View	CA		
Tuttle; Myron R.	Santa Clara	CA		

US-CL-CURRENT: 714/45; 714/736

ABSTRACT:

A computer software-related device and method uses regression testing techniques for testing computer hardware and/or software application(s). Input data and commands from a user are stored, and are sent to a hardware/software system under test. Signatures (representative of visual display data) which are received (with a selected prevalence) as a result of the sent input data and commands are also stored. On command of a user, the stored signatures, input data and commands are subsequently sent to the hardware/software system under test, and new signatures are generated. These new signatures are compared with the stored signatures, and the results of this comparison are used as an indication that the hardware/software system under test is performing as expected.

7 Claims, 13 Drawing figures
Exemplary Claim Number: 7
Number of Drawing Sheets: 12

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 35. Document ID: US 5157782 A

L7: Entry 35 of 37 File: USPT Oct 20, 1992

US-PAT-NO: 5157782
DOCUMENT-IDENTIFIER: US 5157782 A

TITLE: System and method for testing computer hardware and software

DATE-ISSUED: October 20, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuttle; Myron R.	Santa Clara	CA		
Low; Danny	Mountain View	CA		

US-CL-CURRENT: 714/45; 714/25, 714/46, 714/732, 714/736

ABSTRACT:

A computer related system and method uses regression testing techniques for testing computer hardware and/or software application(s). Input data and commands from a user are stored on a host, and sent to an interface device, which then sends them to a hardware/software system under test. Visual display data on a visual display device is thereby affected. Signatures (representative of the visual display data) are generated by the interface device as a result of input data and commands sent to the interface device and system under test. These signatures are received and stored by the host. On command of a user, the stored signatures, input data and commands are subsequently sent to the hardware/software system under test, and new signatures are generated. These new signatures are compared with the stored signatures, and the results of this comparison are used as an indication that the hardware/software system under test is performing as expected.

46 Claims, 31 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 31

☐ 36. Document ID: US 5045994 A

L7: Entry 36 of 37 File: USPT Sep 3, 1991

US-PAT-NO: 5045994
DOCUMENT-IDENTIFIER: US 5045994 A
**** See image for Certificate of Correction ****

TITLE: Emulation process having several displayed input formats and output formats and windows for creating and testing computer systems

DATE-ISSUED: September 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Belfer; Daniel F.	Piscataway	NJ		
Lech; Ann G.	Middlesex	NJ		
Perelmuter; Isaac M.	West Orange	NJ		
Ward; Jerry J.	Matawan	NJ		

US-CL-CURRENT: 703/25

ABSTRACT:

A method of operating a computer system is disclosed that facilitates the creation and testing of application system software by utilizing an autonomous environment to emulate the application system environment. The emulation environment allows the user to call into view sequences of standard input-output (I/O) screen format pairs normally used to submit information to and receive information from the application system. In the emulation mode, these screens are prepared off-line and stored until the user desires to exercise the application system. Each input format is filled with information that will serve as actual input to the application system when it is exercised. Each output format is filled with information that comprises expected results when the application system is actually exercised. The expected results are compared to actual results after execution of each I/O pair and further application system processing is controlled by the comparison results. The stand-alone emulation environment provides editing and control routines and library functions to aid the user in defining and modifying the I/O sequences.

9 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drawi De

☐ 37. Document ID: US 4022979 A

L7: Entry 37 of 37 File: USPT May 10, 1977

US-PAT-NO: 4022979
DOCUMENT-IDENTIFIER: US 4022979 A

TITLE: Automatic in-service digital trunk checking circuit and method

DATE-ISSUED: May 10, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Nicholas Kimbrough	Naperville	IL		

US-CL-CURRENT: 370/244; 370/369, 370/535, 379/16

ABSTRACT:

The integrity of switched, time-division multiplexed digital trunks in a telephone switching system is verified on an individual and in-service basis wherein the digital check is accomplished incident to the conventional D.C. network path continuity verification by the switching system common controller. The terminal circuits serving the channel allow a common multiplexer-demultiplexer to insert a test code during the allocated time slot of the channel being tested and detect the same test code from a similarly-functioning testing arrangement at the far end of the digital channel. Failure of a comparison between sent and received codes results in the inhibition of a positive D. C. path check indication to the common controller.

18 Claims, 9 Drawing figures

Exemplary Claim Number: 14
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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Terms	Documents
L5 AND (symbol) and (graph OR call)	37

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Terms	Documents
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DB=USPT; PLUR=NO; OP=OR			
L8	(((Test) ADJ (Script)) OR (testscript)) ADJ (generator OR generation)	6	L8
L7	L5 AND (symbol) and (graph OR call)	37	L7
L6	L5 and 717/124-127.ccls.	25	L6
L5	L3 OR l1 OR l2	327	L5
L4	L3 AND l1 AND l2	0	L4
L3	test ADJ script	253	L3
L2	debugger ADJ script	4	L2
L1	((Debug ADJ script) OR (path ADJ tester))	70	L1

END OF SEARCH HISTORY

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Terms	Documents
L2 AND ibm.as.	1

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Search: L3 and clyde

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DATE: Friday, May 27, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=NO; OP=OR			
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L2	L1 ANd workflow	23	L2
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Search Results - Record(s) 1 through 23 of 23 returned.

☐ 1. Document ID: US 6892376 B2

L2: Entry 1 of 23 File: USPT May 10, 2005

US-PAT-NO: 6892376
DOCUMENT-IDENTIFIER: US 6892376 B2

TITLE: Flexible infrastructure for managing a process

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDonald; John T.	Woodbridge	CT		
Petherbridge; Philip E.	Southbury	CT		

US-CL-CURRENT: 717/103; 705/8, 709/201

ABSTRACT:

This invention relates to providing a flexible infrastructure for managing a process. This is done by defining a workflow type, building a workflow pointer that defines the location of a database within a network, and coding subforms for the defined workflow type. Role documents are defined and customized, process flow documents are built for the defined workflow type, and action control documents are built for determining what happens to the defined workflow type.

18 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. D

☐ 2. Document ID: US 6789252 B1

L2: Entry 2 of 23 File: USPT Sep 7, 2004

US-PAT-NO: 6789252
DOCUMENT-IDENTIFIER: US 6789252 B1

TITLE: Building business objects and business software applications using dynamic object definitions of ingredient objects

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Miles D.	Phoenix	AZ	85016	
Solar, Jr.; Richard J.	Phoenix	AZ	85018	

US-CL-CURRENT: 717/100; 717/103

ABSTRACT:

A method and system are provided for providing an open and extensible object definition framework that manages business object definitions as specifications. This framework may be used to dynamically define any object that is to be processed by a computer. Objects can include Properties, Classifications, Knowledge, Business Objects, and Business Rules to name a few. Some examples of typical Business Objects include: business and social entities; locations, including spaces, places and channels; activities, including events and processes; items, including products and services; and business records, including orders and other forms of demand, inventory, jobs, deliverables, statements, transaction history et. al. The method and system may be used to define any object that is to be processed by a computer. Objects can include Properties, Classifications, Knowledge, Business Objects, and Business Rules to name a few. Typical Business Objects include: Business and social entities; Locations including spaces, places, and channels; Activity including events and processes; Items including products and services; Business Records including orders and other forms of demand, inventory, jobs, deliverables, statements, transaction history et. al.

237 Claims, 127 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 72

☐ 3. Document ID: US 6782374 B2

L2: Entry 3 of 23 File: USPT Aug 24, 2004

US-PAT-NO: 6782374
DOCUMENT-IDENTIFIER: US 6782374 B2

TITLE: System, method and article of manufacturing for a runtime program analysis tool for a simulation engine

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nichols; Mark Stewart	Downers Grove	IL		

US-CL-CURRENT: 706/45; 706/15

ABSTRACT:

A system is disclosed that provides a goal based learning system utilizing a rule based expert training system to provide a cognitive educational experience. The system provides the user with a simulated environment that presents a business opportunity to understand and solve optimally. Mistakes are noted and remedial educational material presented dynamically to build the necessary skills that a user requires for success in the business endeavor. The system utilizes an artificial intelligence engine driving individualized and dynamic feedback with synchronized video and graphics used to simulate real-world environment and interactions. Multiple "correct" answers are integrated into the learning system to allow individualized learning experiences in which navigation through the system is at a pace controlled by the learner. A robust business model provides support for realistic activities and allows a user to experience real world consequences for their actions and decisions and entails realtime decision-making and synthesis of the educational material. The system includes tools for analysis and display of a presentation as it is presented.

19 Claims, 79 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 58

☐ 4. Document ID: US 6772407 B1

L2: Entry 4 of 23 File: USPT Aug 3, 2004

US-PAT-NO: 6772407
DOCUMENT-IDENTIFIER: US 6772407 B1

TITLE: Staging objects in workflow management systems

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leymann; Frank	Aidlingen			DE
Roller; Dieter	Schoenaich			DE

US-CL-CURRENT: 717/100; 705/8

ABSTRACT:

The present invention relates to a device within and a method processed by a Workflow Management System (WFMS) making resources/objects accessible to activities of said WFMS processing these resources/objects. The Workflow-Management-System (WFMS) according the current invention comprises a WFMS-server said WFMS-server performs navigation through a process-model and performs resolution by selecting a next-process-activity to be executed by said WFMS, and by selecting a WFMS-agent to execute said next-process-activity. The current invention teaches a stager storing, after the WFMS performing said resolution, resources required for execution of said next-process-activity from one or a multitude of source-locations onto a WMF-staging-location. Afterwards the WFMS-agent uses said resources from said WFMS-staging-location for execution of said next-process-activity.

13 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 5. Document ID: US 6769113 B1

L2: Entry 5 of 23 File: USPT Jul 27, 2004

US-PAT-NO: 6769113
DOCUMENT-IDENTIFIER: US 6769113 B1
**** See image for Certificate of Correction ****

TITLE: Enterprise process models and enterprise application for information technologies

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bloom; Bard	Yorktown Heights	NY		
Reimer; Darrell	Ossining	NY		
Simmonds; Ian D.	Dobbs Ferry	NY		
Wegman; Mark N.	Ossining	NY		

US-CL-CURRENT: 717/103; 705/8

ABSTRACT:

An enterprise process model that comprises a plurality of actors, actions performed by said actors, objects acted upon by said actions, and roles. Data characterizing the view of the attributes of at least one of the objects of the model is generated by associating a plurality of situation/role pairs with the at least one object; and then, for each particular situation/role pair, defining a view definition for subsequent use. In another aspect of the present invention, an enterprise application for use in an information system that comprises diverse software services and hardware platforms is generated by providing a model of the enterprise process, wherein the model comprises a plurality of actors, actions performed by said actors, objects acted upon by said actions, and roles. A configuration defining software services and hardware platforms that support the model is generated. Finally, program fragments that support the model are generated.

12 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 6. Document ID: US 6732353 B1

L2: Entry 6 of 23 File: USPT May 4, 2004

US-PAT-NO: 6732353
DOCUMENT-IDENTIFIER: US 6732353 B1

TITLE: Method and system for generating enterprise applications of a diversity of information technologies

DATE-ISSUED: May 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bloom; Bard	Yorktown Heights	NY		
Reimer; Darrell	Ossining	NY		
Simmonds; Ian D.	Dobbs Ferry	NY		
Wegman; Mark N.	Ossining	NY		

US-CL-CURRENT: 717/103; 705/8

ABSTRACT:

An enterprise process model that comprises a plurality of actors, actions performed by said actors, objects acted upon by said actions, and roles. Data characterizing the view of the attributes of at least one of the objects of the model is generated by associating a plurality of situation/role pairs with the at least one object; and then, for each particular situation/role pair, defining a view definition for subsequent use.

In another aspect of the present invention, an enterprise application for use in an information system that comprises diverse software services and hardware platforms is generated by providing a model of the enterprise process, wherein the model comprises a plurality of actors, actions performed by said actors, objects acted upon by said actions, and roles. A configuration defining software services and hardware platforms that support the model is generated. Finally, program fragments that support the model are generated.

40 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

☐ 7. Document ID: US 6728947 B1

L2: Entry 7 of 23 File: USPT Apr 27, 2004

US-PAT-NO: 6728947
DOCUMENT-IDENTIFIER: US 6728947 B1

TITLE: Workflow distributing apparatus and method

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bengston; Michael B.	Frankfort	IL		

US-CL-CURRENT: 717/103; 705/10, 705/8, 709/203

ABSTRACT:

A system and apparatus for automatically executing process steps by processing devices transmitted, over a communication channel, using a workflow file to specify the process steps. Devices are used to edit, initiate, and observe workflow execution. Editing comprises selecting process steps, executing parameter selection software supplied by the processing device, and drawing links between icons. Once workflow execution is initiated, workflow data is passed from one processing device to the next. Each processing device performs the process step specified by the workflow file with the selected parameters and optionally sends status information to observing devices. This sequence continues until all process steps are executed or an error occurs.

15 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 8. Document ID: US 6678882 B1

L2: Entry 8 of 23 File: USPT Jan 13, 2004

US-PAT-NO: 6678882
DOCUMENT-IDENTIFIER: US 6678882 B1

TITLE: Collaborative model for software systems with synchronization submodel with merge feature, automatic conflict resolution and isolation of potential changes for reuse

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hurley; William D.	Louisville	CO		
Habermehl; Kyle D.	Niwot	CO		

US-CL-CURRENT: 717/121; 717/122, 719/316

ABSTRACT:

A collaboration model is provided for constructing evolutionary collaborative applications deployed in network environments, such as the World Wide Web, or wireless environments, which supports introduction of new object types into the deployed system. The collaboration model is arranged as a set of submodels. The highest-level control resides in a synchronization submodel. A merge submodel defines mechanisms for merging changes, detecting conflicts, and resolving

conflicts whenever possible. A change submodel is operative to define allowable changes for shared objects. A replication model is arranged to provide replication functionality, and define how multiple versions of an object are presented. A distribution submodel provides distribution functionality, and a type submodel provides a programming language-independent representational scheme for the overall collaboration model. The synchronization submodel, the merge submodel, and the replication submodel are arranged to use constructs defined by the change submodel.

25 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☐ 9. Document ID: US 6662357 B1

L2: Entry 9 of 23 File: USPT Dec 9, 2003

US-PAT-NO: 6662357
DOCUMENT-IDENTIFIER: US 6662357 B1
**** See image for Certificate of Correction ****

TITLE: Managing information in an integrated development architecture framework

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/120

ABSTRACT:

A system, method, and article of manufacture are provided for managing information in a development architecture framework. Common information that is used by a plurality of components of a system is allowed to be accessed in a single, shared repository. Unique information that is unique to the components of the system is stored in corresponding designated folders. Media content communicated in the system is managed based on metadata thereof.

18 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

☐ 10. Document ID: US 6662355 B1

L2: Entry 10 of 23 File: USPT Dec 9, 2003

US-PAT-NO: 6662355
DOCUMENT-IDENTIFIER: US 6662355 B1

TITLE: Method and system for specifying and implementing automation of business processes

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Caswell; Nathan S.	Yorktown Heights	NY		
Ciccolo; Arthur C.	Ridgefield	CT		
Nigam; Anil	Stamford	CT		

US-CL-CURRENT: 717/103; 705/1

ABSTRACT:

A method s for specifying and implementing automation of business processes where the specification is independently manipulable by both the business process owner and technical implementers, and resulting technical elements can be tested for compliance with every detail in the specification. The method creates a single shared model suitable for understanding and execution in both the business and technical domains by focusing on the specification problem in the area of business automation. The solution to the specification problem lies in Information, Function, Flow (IFF or IF.sup.2) factorization of business processes. Models of the business are constructed by way of the IF.sup.2 modeling methodology. This is a complete model which includes, by construction, external specifications of each task included in the business model. The modularization problem is solved by preserving the partitioning of the system created in the business model. The automation system implements concrete modules that uniquely and directly correspond to particular elements whose external specification is determined by the business model.

9 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 11. Document ID: US 6618856 B2

L2: Entry 11 of 23 File: USPT Sep 9, 2003

US-PAT-NO: 6618856
DOCUMENT-IDENTIFIER: US 6618856 B2

TITLE: Simulation method and apparatus for use in enterprise controls

DATE-ISSUED: September 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Coburn; James D.	Cleveland Heights	OH
Hoskins; Josiah C.	Austin	TX
Brooks; Ruven E.	Shorewood	WI

US-CL-CURRENT: 717/135; 700/86, 703/15, 703/22

ABSTRACT:

A method used with a simulator and a controller, the controller running execution code to provide output signals which, when linked to resources, cause the resources to cycle through requested activities, the simulator receiving controller output signals and, in response thereto, generating motion pictures of resources as the resources cycle through requested activities, the simulator using data structures which model the resources to determine which motion pictures to generate, the method for generating execution code and data structures for use by the controller and the simulator, respectively, and comprising the steps of, for each resource, encapsulating resource information including resource logic in a control assembly (CA), instantiating at least one instance of at least one CA, compiling instantiated CA instance resource logic to generate execution code, gleaning simulation information from the instantiated CA instances and using the gleaned simulation information to generate a simulation data structure for the resources corresponding to the instantiated CA instances.

26 Claims, 129 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 103

☐ 12. Document ID: US 6606740 B1

L2: Entry 12 of 23 File: USPT Aug 12, 2003

US-PAT-NO: 6606740
DOCUMENT-IDENTIFIER: US 6606740 B1

TITLE: Development framework for case and workflow systems

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lynn; Anita Hsueh	Arlington	VA		
Hagopian; Matthew	Arlington	VA		
Gilmour; Charles	Washington	DC		

US-CL-CURRENT: 717/100

ABSTRACT:

A workflow processing framework provides common objects and business processes for the creation of an enterprise-wide workflow processing system. Conventional

workflow, database and other platforms are accessed using standardized protocols. The use of common objects providing robust functionality while being insulated from the specific platforms used to implement the workflow processing system enable the common objects to be reused to perform many functions in many different lines of business without modification. If necessary, foundation objects are written to utilize the existing platforms more fully than permitted by standardized protocols. The business processes are generalized as much as possible, but are customized as required to fit the enterprise environment.

25 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

13. Document ID: US 6535861 B1

L2: Entry 13 of 23 File: USPT Mar 18, 2003

US-PAT-NO: 6535861
DOCUMENT-IDENTIFIER: US 6535861 B1

TITLE: Goal based educational system with support for dynamic characteristics tuning using a spread sheet object

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Connor; Martha Torrey	Verona	NJ		
Rosenfeld; Eren Tolga	New York	NY		

US-CL-CURRENT: 706/11; 434/107, 434/322, 434/327, 706/45, 706/46, 706/47, 706/60

ABSTRACT:

A system is disclosed that provides a goal based learning system utilizing a rule based expert training system to provide a cognitive educational experience. The system provides the user with a simulated environment that presents a business opportunity to understand and solve optimally. Mistakes are noted and remedial educational material presented dynamically to build the necessary skills that a user requires for success in the business endeavor. The system utilizes an artificial intelligence engine driving individualized and dynamic feedback with synchronized video and graphics used to simulate real-world environment and interactions. Multiple "correct" answers are integrated into the learning system to allow individualized learning experiences in which navigation through the system is at a pace controlled by the learner. A robust business model provides support for realistic activities and allows a student to experience real world consequences for their actions and decisions and entails realtime decision-making and synthesis of the educational material optimized to the characteristics of the student.

17 Claims, 79 Drawing figures
Exemplary Claim Number: 10
Number of Drawing Sheets: 58

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 14. Document ID: US 6513154 B1

L2: Entry 14 of 23 File: USPT Jan 28, 2003

US-PAT-NO: 6513154
DOCUMENT-IDENTIFIER: US 6513154 B1

TITLE: System and method for testing of computer programs in programming effort

DATE-ISSUED: January 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Porterfield; John R.	San Francisco	CA	94109	

US-CL-CURRENT: 717/101

ABSTRACT:

A system coordinates software development activities with planning documents (e.g. Gantt charts). Planning documents are created and/or edited to reflect the structure of underlying code by assigning module and procedures to task lines. Further enhancements of the invention provide mechanism for manager to know where coder(s) are stuck or ignoring code. A monitor process on the developer's computer identifies exception generating code, and integrating bug lists from disparate sources into one unified planning document. The information used to generate the planning document is used to provide a mechanism of transferring that links bugs, code, and intent in one package. The system is extended to provide automated defect detection and correction, particularly in the areas of run-time exceptions, endless loops, control flow errors, data errors, and errors caused by breaking working code with later edits. The combination of the invention's code driven management paradigm and automated debugging mechanism provides an enhanced mechanism for sharing knowledge among developers.

28 Claims, 40 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 40

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 15. Document ID: US 6405364 B1

L2: Entry 15 of 23 File: USPT Jun 11, 2002

US-PAT-NO: 6405364
DOCUMENT-IDENTIFIER: US 6405364 B1

TITLE: Building techniques in a development architecture framework

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/101; 717/102, 717/120, 717/124

ABSTRACT:

A system is provided for building systems in a development architecture framework. The present invention is directed to both a system to be built and an implementation strategy to fulfill system requirements. Software components of the system are encapsulated with wrappers. The wrappers are adapted to be changed upon other software components of the system being changed while the encapsulated software components of the system remain unchanged. In one embodiment of the present invention, specifying the requirements of the system to be built and the implementation strategy to fulfill the requirements may be carried out using tools such as data modeling tools, process modeling tools, event modeling tools, performance modeling tools, object modeling tools, component modeling tools, reuse support tools, prototyping tools, application logic design tools, database design tools, presentation design tools, communication design, and usability test tools. In another embodiment of the present invention, improving the performance and maintenance of the system may be carried out using tools such as interactive navigation tools, graphical representation tools, extraction tools, repository tools, restructuring tools, and data name rationalization tools.

12 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

☐ 16. Document ID: US 6341276 B1

L2: Entry 16 of 23 File: USPT Jan 22, 2002

US-PAT-NO: 6341276
DOCUMENT-IDENTIFIER: US 6341276 B1

TITLE: System for selecting a computer solution from a pre-defined set

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bender; Craig Samuel	Brewster	NY		
Shedletsky; John James	Brewster	NY		

US-CL-CURRENT: 706/50; 706/10, 706/21, 706/45

ABSTRACT:

An expert system selects a computer solution from a set of predefined, proven solution to meet a specific need. Each of the predefined solutions comprises a plurality of hardware platforms and associated software, and a communication facility between the hardware platforms. The system identifies and directs display of a multiplicity of different characteristics of computer solutions within the set. Then, the user selects one of the characteristics to reduce the number of possible solutions from the set. In response, the system may then display other characteristics which can be selected to further reduce the number of possible solutions from those identified after the one characteristic was selected. According to a preferred embodiment of the present invention, this narrowing process always results in one or more solutions from the set; there are no "dead ends". After the last characteristic is selected, the system identifies and directs display of a final subset of the set corresponding to the selected characteristics.

18 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 29

17. Document ID: US 6272672 B1

L2: Entry 17 of 23 File: USPT Aug 7, 2001

US-PAT-NO: 6272672
DOCUMENT-IDENTIFIER: US 6272672 B1

TITLE: Dataflow processing with events

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conway; Melvin E.	Beverly	MA	01915	

US-CL-CURRENT: 717/107; 717/108

ABSTRACT:

Interactive event-driven programs are structured and executed using two types of constructs: interconnectable processing components and flow objects with associated data. Components are interconnected in a hierarchical dataflow network, and references which provide access to flow objects flow on the interconnections. Response to events and bidirectional coordination over multicomponent data paths, even in a distributed object system, employ unidirectional dataflows and intercomponent message sequences mediated by flow objects. Scaling and abstraction of complexity are facilitated by encapsulation of constructed networks into new component definitions. An interactive debugger preserves state as an executing program is edited, permitting an event-driven program to be modified in the intervals between processing of events without reinitialization. A component protection method employs multiple Levels of usage authorization within components, enabling developers to define and distribute new protected components in a decentralized component market.

151 Claims, 115 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 77

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Ds

☐ 18. Document ID: US 6266806 B1

L2: Entry 18 of 23 File: USPT Jul 24, 2001

US-PAT-NO: 6266806
DOCUMENT-IDENTIFIER: US 6266806 B1

TITLE: Object oriented monitor displaying interactions among objects in square matrix with an object designated in first column and additional column(s) for interacting objects

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hurd, II; Donald M.	Allen	TX		
Weldon, Jr.; Richard S.	Plano	TX		
Jacobs; Lance D.	Dallas	TX		

US-CL-CURRENT: 717/125

ABSTRACT:

A method and system for summarizing object interactions in an object-oriented software program is disclosed. A plurality of tabular inputs containing information about the object interactions in a software system are input into a computer system. The system then determines object information and interaction information from the input information and generates an object summary from the object information and interaction information. The object summary may comprise an object summary matrix indicating instances of interaction between the objects of the software program and a plurality of message summaries that indicate messages sent from and sent to a particular object of the software program.

16 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Ds

☐ 19. Document ID: US 6038393 A

L2: Entry 19 of 23 File: USPT Mar 14, 2000

US-PAT-NO: 6038393
DOCUMENT-IDENTIFIER: US 6038393 A

TITLE: Software development tool to accept object modeling data from a wide variety of other vendors and filter the format into a format that is able to be stored in OMG compliant UML representation

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iyengar; Sridhar Srinivasa	Irvine	CA		
Fontana; James Albert	Mission Viejo	CA		
Smith; Norman Roy	Lake Forest	CA		
Pattinson; Brian Edward	Trabuco Canyon	CA		
Pitchford; Anthony Reginald	Mission Viejo	CA		
Staub; Mireille Mathilde	Coto de Caza	CA		

US-CL-CURRENT: 717/104

ABSTRACT:

A programmed computer system transforms a distinctive representation of a business model into a generic representation format, such as the Unified Modeling Language ("UML") object model. The system also transforms legacy business processes, including legacy applications into UML format. The UML format of the business model and legacy components are stored in a central repository. The system also allows the reverse engineering and reverse transformation of UML models into a distinctive representation of business models and application components. The transformation of business model information into a UML model is achieved by identifying the differences between these models and creating a bidirectional mapping of the differences. The system also allows for selective movement of objects and models between business process models and UML. In other words, a user may select individual objects to be moved between models.

11 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

☐ 20. Document ID: US 6029156 A

L2: Entry 20 of 23 File: USPT Feb 22, 2000

US-PAT-NO: 6029156
DOCUMENT-IDENTIFIER: US 6029156 A

TITLE: Goal based tutoring system with behavior to tailor to characteristics of a particular user

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Lannert; Eric Jeffrey	Chicago	IL
Poon; Alexander Han Leung	Wolcott	CT
Ciancaglini; Joseph Michael	Greenfield	WI

US-CL-CURRENT: 706/11; 706/12

ABSTRACT:

A system is disclosed that provides a goal based learning system utilizing a rule based expert training system to provide a cognitive educational experience. The system provides the user with a simulated environment that presents a business opportunity to understand and solve optimally. Mistakes are noted and remedial educational material presented dynamically to build the necessary skills that a user requires for success in the business endeavor. The system utilizes an artificial intelligence engine driving individualized and dynamic feedback with synchronized video and graphics used to simulate real-world environment and interactions. Multiple "correct" answers are integrated into the learning system to allow individualized learning experiences in which navigation through the system is at a pace controlled by the learner. A robust business model provides support for realistic activities and allows a user to experience real world consequences for their actions and decisions and entails realtime decision-making and synthesis of the educational material. The system characterizes a user to tailor the presentation.

19 Claims, 75 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 79

☐ 21. Document ID: US 6023692 A

L2: Entry 21 of 23 File: USPT Feb 8, 2000

US-PAT-NO: 6023692
DOCUMENT-IDENTIFIER: US 6023692 A

TITLE: Goal based tutoring system with behavior to control flow of presentation

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nichols; Mark Stewart	Downers Grove	IL		

US-CL-CURRENT: 706/14

ABSTRACT:

A system is disclosed that provides a goal based learning system utilizing a rule based expert training system to provide a cognitive educational experience. The system provides the user with a simulated environment that presents a business opportunity to understand and solve optimally. Mistakes are noted and remedial

educational material presented dynamically to build the necessary skills that a user requires for success in the business endeavor. The system utilizes an artificial intelligence engine driving individualized and dynamic feedback with synchronized video and graphics used to simulate real-world environment and interactions. Multiple "correct" answers are integrated into the learning system to allow individualized learning experiences in which navigation through the system is at a pace controlled by the learner. A robust business model provides support for realistic activities and allows a user to experience real world consequences for their actions and decisions and entails realtime decision-making and synthesis of the educational material. The system provides student controls that guide a student through a presentation in a manner designed to optimize the learning experience.

19 Claims, 75 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 79

☐ 22. Document ID: US 6023691 A

L2: Entry 22 of 23 File: USPT Feb 8, 2000

US-PAT-NO: 6023691
DOCUMENT-IDENTIFIER: US 6023691 A

TITLE: Goal based stimulator utilizing a spreadsheet architecture

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertrand; Benoit Patrick	Brossard			CA
Wills; Kerry Russell	Manchester	CT		

US-CL-CURRENT: 706/2

ABSTRACT:

A system is disclosed that provides a goal based learning system utilizing a rule based expert training system to provide a cognitive educational experience. The system provides the user with a simulated environment that presents a business opportunity to understand and solve optimally. Mistakes are noted and remedial educational material presented dynamically to build the necessary skills that a user requires for success in the business endeavor. The system utilizes an artificial intelligence engine driving individualized and dynamic feedback with synchronized video and graphics used to simulate real-world environment and interactions. Multiple "correct" answers are integrated into the learning system to allow individualized learning experiences in which navigation through the system is at a pace controlled by the learner. A robust business model provides support for realistic activities and allows a user to experience real world consequences for their actions and decisions and entails realtime decision-making and synthesis of the educational material. The system is architected around a spreadsheet input to manage and control the system.

19 Claims, 75 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 79

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 23. Document ID: US 6018627 A

L2: Entry 23 of 23 File: USPT Jan 25, 2000

US-PAT-NO: 6018627
DOCUMENT-IDENTIFIER: US 6018627 A

TITLE: Tool-independent system for application building in an object oriented development environment with data stored in repository in OMG compliant UML representation

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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US-CL-CURRENT: 717/103; 717/104

ABSTRACT:

A programmed computer system includes a set of development tools, each having a format used to store data and code files. The output data from a developmental tool is transformed into a generic format data which is saved in a repository. The repository also contains all output data, application components, and information as to the relationship between the entities and objects stored in the repository. Each tool employed during the development process puts information into the repository and takes information out of the repository. In this way, the system integrates the tools used in different parts of the development process by passing necessary information from one tool to another. Different tools are employed through each of the development stages, legacy integration, enterprise modeling, domain modeling, writing and editing of business logic, generating skeleton code, component building and wrapping and application deployment.

24 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

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